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June 14, 1991

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OUR FILE NUMBER G 99999-00000

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WRITER'S DIRECT DIAL NUMBER 229-7814

> Chris Stubbs South Coast Groundwater Section, H-6-4 United States Environmental Protection Agency Post Office Box 193062 San Francisco, CA 94119-3036

> > Re: Hawker Pacific Inc. 11310 Sherman Way

Sun Valley, California; EPA Reference T-4-1

Dear Chris:

Enclosed is the response of Hawker Pacific Inc. to EPA's second request for information to it pertaining to the above facility delivered by letter dated March 14, 1991. Pursuant to my conversation with yourself and Marcia Preston, this response is timely. Also pursuant to those conversations, the company is submitting the most recent two years of tax returns and financial reports, and the financial reports are the one available recent year of audited financial statements for the company and are otherwise the financial statements of its parent entity (contained in its annual reports -- of which 3 are actually enclosed). Our agreement is that EPA's acceptance of fewer years financial data shall not preclude EPA from seeking the other years at some later time. I also enclose for your convenience a copy of Hawker Pacific's response to an earlier (February 1989) § 104(e) request (without exhibits). The current response refers in several places to the prior response.

GIBSON, DUNN & CRUTCHER

June 14, 1991 Page 2

If you have any questions regarding this response, please call me.

Very truly yours,

Michael A. Monahan

MAM/par

cc: Marcia Preston, Asst. Regional Counsel, EPA

MICHAEL A. MONAHAN
GIBSON, DUNN & CRUTCHER
333 South Grand Avenue
Los Angeles, California 90071
(213) 229-7000

Attorneys for HAWKER PACIFIC INC.

BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

In re Hawker Pacific Inc., facility at 11310 Sherman Way, Sun Valley, California; San Fernando Valley Groundwater Investigation) RESPONSE OF HAWKER) PACIFIC INC. TO SECOND) EPA REQUEST FOR) INFORMATION PURSUANT TO) CERCLA § 104(e)

This response is made by Hawker Pacific Inc.

("Hawker Pacific") to the request for information under

CERCLA § 104(e), 42 U.S.C. § 9604(e) ("Second EPA Request"),

made by the United States Environmental Protection Agency

("EPA") by letter dated March 14, 1991, addressed to

D. L. Lokken, regarding Hawker Pacific's facility at 11310

Sherman Way, Sun Valley, California 91352. Much of the

information sought by the Second EPA Request was provided in

response to EPA's request for information under CERCLA

§ 104(e), served by letter dated February 1989 ("First EPA

Request"), by response dated July 7, 1989.

The persons who provided information regarding the facility included in these responses are Erik Johnson and Jeff Belzer, who are currently Hawker Pacific employees who can be contacted through Hawker Pacific counsel.

This response does not constitute any admission by Hawker Pacific that it has contributed to or is responsible for the San Fernando Valley groundwater contamination referred to in the EPA's request, and Hawker Pacific denies any such contribution or responsibility.

This response includes certain exhibits as to which Hawker Pacific claims confidentiality pursuant to CERCLA § 104(e)(7)(E) and (F). These exhibits are enclosed in separate envelopes marked to indicate confidentiality.

Hawker Pacific objects to Instruction 3 of the Request insofar as it seeks to establish a continuing obligation upon Hawker Pacific to report information subsequently discovered or learned by Hawker Pacific, on the grounds that such a continuing request is beyond the scope of EPA authority under CERCLA § 104(e) and would be impracticable or impossible to implement.

Without waiving the foregoing qualifications and objections, Hawker Pacific further responds to the Requests as follows:

 List the EPA RCRA Identification Numbers of the Respondent, if any.

The EPA I.D. Number for this site is CAT 000646257.

2. Describe the nature and dates of present and past operations at the facility.

Hawker Pacific overhauls and repairs, and manufactures, aircraft landing gear and flight control equipment at this facility. The operations at the site consist of receiving and inspection of material and equipment, machining and grinding, plating, painting, assembly and testing of new and reassembled equipment. Hawker Pacific has conducted such operations at the site since April 1, 1987, when it purchased assets for that purpose from Inchcape PLC. At that time, its facility included buildings currently numbered 1, 2, 3 and 5. In December 1987, its facility was expanded to include the building currently numbered No. 4. (These building numbers have changed over time: Current Buildings 4 and 5 were referred to as Buildings 5 and 4, respectively in Hawker Pacific's response to First EPA Request.) See the response to Question 5, below, regarding the operations at the site prior to Hawker Pacific's.

3. Identify the current owner(s) of the facility. State the dates during which the current owner owned, operated, or leased any portion of the facility, and provide copies of all documents evidencing or relating to such ownership, operation, or lease, including, but not limited to, purchase and sale agreements, deeds, and leases.

The property under Buildings 1, 2 and 3 is owned by Gordon Wagner and Joseph Bassinger, and Hawker Pacific believes it has been since 1963. During the period 1963 to 1969, the owners operated a business known as Stellar Hydraulics on part of the current site. From 1969 to April 1987, Hawker Pacific believes, the owners leased the property to (or otherwise allowed it to be used by) the companies identified in the response to Question 5, below. Since April 1987, the owners have leased the property to Hawker Pacific. A copy of the current lease is submitted herewith as Exhibit 1.

The property under Buildings 4 and 5 is owned by
Industrial Bowling Corp. Hawker Pacific does not know
how long Industrial Bowling has owned the property.
From 1967 to April 1987, Hawker Pacific believes, the
owner leased the Building 5 property to (or otherwise
allowed it to be used by) the businesses identified in
the response to Question 5, below. Since April 1987,
the owners have leased the property to Hawker Pacific.
A copy of the lease is submitted herewith as Exhibit 2.
For some period prior to December 1987, the owner leased
the Building 4 property to (or otherwise allowed it to
be used by) Laura Scudder or a Laura Scudder
distributor. Since December 1987, the owner has leased

the property to Hawker Pacific. A copy of the lease is submitted herewith as Exhibit 3.

- 4. Identify all prior owners of the facility. For each prior owner further identify:
 - a. The dates of ownership;
 - b. All evidence that hazardous materials were released or threatened to be released at the facility during the period that they owned the facility.

Hawker Pacific does not know the identity of the prior owners of the properties referred to in response to Question 3.

- 5. Identify the prior operators and lessees of the facility. For each such operator or lessee, further identify:
 - a. The dates of their operations at or lease of the facility;
 - b. The nature of their operations at the facility;
 - c. All evidence that hazardous materials were released or threatened to be released at the facility during the period in which they were operating at the facility.

a.	Period (Approx.) Operator		<u>Buildings</u>		
	1963-1969	Stellar Hydraulics	1, 2, 5		
	1969-1977	Canoga Industries	1, 2, 5		
	1977-1979	Zero Corporation	1, 2, 3, 5		

1979-1980	Bertea Corporation	1, 2, 3, 5
1980-1982	Parker Hannifin Corp.	1, 2, 3, 5
1982-1987	Inchcape PLC	1, 2, 3, 5
? - 1987	Laura Scudder	4

b. The prior operators in Buildings 1, 2, 3 and 5 operated businesses generally similar to Hawker Pacific's current business, except that the rotor wing operations were added by Bertea and continued by subsequent operators, and except that Hawker Pacific did not use some of the solvents or other chemicals used by prior operators at the site (as discussed further in response to part (c) of this Question, below).

The prior operator in Building 4 operated a warehouse/delivery truck maintenance facility for Laura Scudder food products.

c. Analyses of soil samples taken from the leach field area of the Building 4 septic tank system showed trace amounts of toluene and perchloroethylene ("PCE"). Analyses of soil samples from the leach field of the building 3 septic tank system also showed trace toluene. Hawker Pacific has not used PCE at this facility. Hawker Pacific has not used products containing toluene in Buildings 3 or 4, or disposed of any

such product in the Building 3 or 4 septic tank systems. Moreover, lacquer thinner, the product Hawker Pacific has used at the facility containing toluene, also contains other chemicals that were not detected in either leach field. Pacific believes that Laura Scudder, the prior operator at Building 4, conducted vehicle maintenance operations there; this belief is based, among other things, on used oil filters and other similar materials left at the site by Laura Scudder. Records of prior operators at Buildings 1, 2, 3 and 5 retained by Hawker Pacific indicate that prior operators on those portions of the site used PCE, but only until the early 1980's. trace levels of toluene and PCE found in the leach field areas do not threaten groundwater and were deemed insignificant by the Regional Water Board.) Shallow soil samples from the area adjacent to the clarifier in Building 2 also show trace quantifies of toluene and PCE. PCE, as stated above, has not been used by Hawker Pacific at the site. No product containing toluene was used or disposed of by Hawker Pacific in this area.

Soil samples taken in the area of a small unused underground tank and an adjacent small sump

between Buildings 1 and 2 contained hydrocarbons (oil), PCE, TCE, TCA, toluene and xylene. The tank was not used by Hawker Pacific and its presence was not discovered by Hawker Pacific until 1989. As stated above, Hawker Pacific has not used PCE at this facility. Hawker Pacific stored in this area only new machine lubricants unlike the chemicals detected in the soil here.

- 6. Provide a scaled map of the facility which includes the locations of significant features. Describe the physical characteristics of the facility, including, but not limited to, the following:
 - a. Surface structures (e.g., building, tanks, etc.);
 - b. Subsurface structures (e.g., underground tanks, sumps, pits, clarifiers, etc.);
 - c. Ground water wells and dry wells, including drilling logs;
 - d. Past and present storm water drainage system, sanitary sewer system, including septic tank(s) and subsurface disposal field(s);
 - e. Any and all additions, demolitions, or changes of any kind to physical structures on, under, or about the facility, or to the property itself (e.g., excavation work) and state the dates on which such changes occurred.

See diagram and key with descriptions, submitted herewith as Exhibit 4.

7. Provide all existing technical or analytical information about the facility, including, but not limited to, data and documents related to soil, water (ground and surface), geology, hydrogeology, or air quality on and about the facility.

See reports submitted herewith as Exhibits 5, 6, 7 and 8.

- 8. Are you or your consultants planning to perform any investigations of the soil, water (ground or surface), geology, hydrogeology, or air quality on or about the facility? If so, identify:
 - a. The nature and scope of these investigations;
 - b. The contractors or other persons that will undertake these investigations;
 - c. The purpose of the investigations;
 - d. The dates when such investigations will take place and be completed;
 - e. Where on the facility such investigations will take place.

See work proposal dated May 22, 1991 submitted herewith as Exhibit 9. The work set forth therein is scheduled to begin this month; and it is anticipated that it will be completed in three to four months.

9. Did you acquire the facility after the disposal or placement of the hazardous substances on, in, or at the facility? Describe all of the facts on which you base the answer to this Question.

Hawker Pacific is a lessee. See response to Question 5 above.

10. At the time you acquired the facility, did you know or have reason to know that any hazardous substance was disposed of on, in, or at the facility? Describe all investigations of the facility that you took prior to acquiring the facility, and all of the facts on which you base the answer to this Question.

Hawker Pacific is a lessee. At the time it began operations at the property it did not know or have reason to know of any such disposal. Hawker Pacific did a walk-through inspection.

- 11. Did you ever transport to the facility or use, purchase, generate, store, treat, dispose, or otherwise handle at the facility any materials, either hazardous or non-hazardous? If the answer to this question is anything but an unqualified "no," identify:
 - a. In general terms, the nature and quantity of the non-hazardous materials so transported, used, purchased, generated, stored, treated, disposed, or otherwise handled;

- b. The common chemical name, specific chemical name, Chemical Abstract Service (CAS) number, chemical composition, characteristics, and physical state (e.g., solid, liquid, gas) of each hazardous material so transported, used, purchased, generated, stored, treated, disposed, or otherwise handled;
- c. The persons who supplied you with such hazardous material or how each such hazardous material was generated by you;
- d. How each such hazardous material was transported, used, purchased, stored, treated, disposed, or otherwise handled by you;
- e. When each such hazardous material was transported, used, purchased, generated, stored, treated, disposed, or otherwise handled by you;
- f. Where each such hazardous material was used, purchased, generated, stored, treated, disposed, or otherwise handled by you, describing the location(s) and providing a map or diagram of such location(s). Location information should include, but is not limited to, information pertaining to tanks, ponds, treatment facilities, and other units which were historically used to generate, store, treat or dispose of hazardous materials, but which may no longer exist;

- g. The persons who transported and/or disposed of each such hazardous material. If disposal off of the facility occurred, provide a detailed description, including copies of manifests, and identify the location where the hazardous material was transported;
- h. The annual quantity of each such hazardous material used, purchased, generated, stored, treated, transported, disposed, or otherwise handled by you, reported in gallons for liquids and pounds for solids.

(See Hawker Pacific Inc.'s Response to First EPA Request, Questions 1 and 2.)

- a. See Hawker Pacific Inc.'s Response to First EPA Request, Questions 1 and 2.
- b. See Hawker Pacific Inc.'s Response to EPA's First Request, Questions 1 and 2. Hawker Pacific also uses and has used at the facility the following chemicals in the approximate current volumes shown: Sulfuric Acid (2200 lbs/yr); Muriatic (Hydrochloric) Acid (HCL) (1200 lbs/yr); Hydrofluoric Acid (60 gallons); Chromic Acid Flakes (2000 lbs/yr); Fluoroboric Acid (1620 lbs/yr). Material Safety Data Sheets providing further information on the composition and of the

- chemicals used by Hawker Pacific are supplied herewith as Exhibit 10.
- c. See Hawker Pacific Inc.'s Response to First EPA Request, Questions 1 and 2. The primary current suppliers of the chemicals referred to in response to paragraph (b) of this Question are:

Millhorn Chemical and Supply Company 6142 Walker Avenue
Maywood, California 90270 (213) 771-8301
Plating chemicals and supplies

Rho-Chem Inc.
Post Office Box 6021
Inglewood, California 90301
Solvents supplier

LT Saver
Shell Oil Distributor
14117 Aetna Street
Van Nuys, California 91401
Oils and fluids supplier lubricating oils and hydraulic fluids

- d. See Hawker Pacific Inc.'s Response to First EPA Request, Questions 1, 2 and 4.
- e. See Hawker Pacific Inc.'s Response to First EPA
 Request, Questions 1 and 2. Hawker Pacific has
 generated or handled the materials described
 therein throughout the period it has operated at
 the site.
- f. See Hawker Pacific Inc.'s Response to First EPA Request, Questions 1 and 2.
- g. See Hawker Pacific Inc.'s Response to First EPA Request, Questions 1 and 2. Hawker Pacific

- provided copies of manifests with its last response. Copies of subsequent manifests are supplied herewith as Exhibit 11.
- h. See Hawker Pacific Inc.'s Response to First EPA Request, Questions 1 and 2.
- 12. Identify all leaks, spills, releases or threats of releases of any kind into the environment of any hazardous materials that have occurred or may occur at or from the facility. In addition, identify:

 See responses to Questions 5 and 7 above. Without determining or conceding that the materials involved are hazardous as defined, Hawker Pacific states that it has certain air emissions from permitted equipment or from activities exempt from permitting by the South Coast Air Quality Management District. Hawker Pacific will provide additional information on such air emissions upon request.
- 13. If any releases or threatened release identified in response to Question 12, above, occurred into any subsurface disposal system, floor drain, sump, or dry well inside or under any buildings located on the facility, further identify:
 - a. Precisely where the disposal system, floor drain, sump, or dry well is and was located;
 - b. When the disposal system, floor drain, sump, or dry well was installed;

- c. Whether the disposal system, floor drain, sump, or dry well was connected to pipes;
- d. Where such pipes are or were located, describing the location(s) and providing a map or diagram of such location(s);
- e. When such pipes were installed;
- f. How and when such pipes were replaced, repaired, or otherwise changed.

See responses to Questions 5 and 7 above.

14. Is the facility currently connected to a sewer line? If so, identify the sewage system, date of connection, and type of wastes discharged. If you are or at some time operated the facility without a sewer line connection, identify the method of waste disposal that you use or did use. Specifically, have you or are you using leach field(s), septic tank(s), or any other method of disposal at the facility. Provide copies of any sewer permits, including but not limited to industrial waste permits.

Buildings 1, 2 and 5 of the facility are connected to a sewer line. See sewer permit submitted herewith as Exhibit 12. Buildings 3 and 4 have septic tank systems with leach fields for their sanitary sewage discharges.

15. Describe any acts or omissions of any persons, other than your employees, agents, or those persons with whom you had a contractual relationship, that may have caused

the release or threat of release of hazardous substances at the facility and damages relating therefrom and identify such persons. In addition:

- a. Describe all precautions that you took against foreseeable acts or omissions of any such third parties, and the consequence that could foreseeably result from such acts or omissions;
- b. Describe the care you exercised with respect to the hazardous substances found at the facility.
 See response to Question 5 above.
- 16. Identify all liability insurance policies held by
 Respondent from the time Respondent began operations at,
 assumed ownership of, or began leasing the facility
 (whichever occurred earlier) until the present. In
 identifying such policies, state:
 - a. The name and address of each insurer and of the insured;
 - b. The amount of coverage under each policy;
 - The commencement and expiration dates for each policy;

In addition, submit a complete copy of each policy.

Copies of insurance policies are submitted herewith as

Exhibits 13 - 17. These policies are confidential and

proprietary under 42 U.S.C. § 9604(e)(7)(E) and (F) and

are enclosed in separate envelopes so marked.

- a. Name and address of insurance company: Chubb Group of Insurance Companies, 15 Mountain View Road, Warren, New Jersey 07060.
- b. See policies submitted herewith.
- c. Insurance coverages commenced at the date of HPI's acquisition on April 1, 1987 and renew annually on October 1.
- 17. Provide copies of all income tax returns including all schedules sent by you to the federal Internal Revenue Service in the last five years.

Copies of the 1988 and 1989 Federal Income Tax Returns are submitted herewith as Exhibits 18 and 19. These returns are confidential and proprietary under 42 U.S.C. § 9604(e)(7)(E) and (F) and are enclosed in separate envelopes so marked.

18. Provide all financial statements for the past five fiscal years, including but not limited to those filed with the federal Internal Revenue Service, the Franchise Tax Board, any other state taxing authorities, and the Securities and Exchange Commission.

Copies of the 1988, 1989 and 1990 Annual Reports of
Hawker Siddeley are submitted herewith as Exhibits 20 22. Copies of 1989 Financial Statements for Hawker
Pacific are submitted herewith as Exhibit 23. Hawker
Pacific has no audited financial statements for 1988 or
1990.) These financial statements are confidential and

proprietary under 42 U.S.C. § 9604(e)(7)(E) and (F) and are enclosed in separate envelopes so marked.

19. Identify all of Respondent's current assets and liabilities.

See response to Question 18 above.

20. Identify all subsidiaries and parent corporations of Respondent.

HPI is a wholly-owned subsidiary of Hawker Pacific Pty Ltd (Australia) which in turn is a wholly-owned subsidiary of Hawker Siddeley Group PLC (UK).

21. Provide a copy of the most current Articles of Incorporation and By-laws of Respondent.

Copies of the Articles of Incorporation and By-laws are submitted herewith as Exhibits 24 and 25.

22. Identify the managers and majority shareholders or partners of Respondent and the nature of their management duties or amount of shares held, respectively.

As to shareholders, see response to Question 20 above. As to managers, Hawker Pacific has a number of salaried employees who might be considered management. The primary management personnel for the site are:

David L. Lokken, Executive Vice President and Chief Operating Officer, responsible for the overall day-to-day management; Jeff B. Belzer, Vice President Finance and Administration, responsible for the financial and

administrative requirements of the company; Robert D.

Griswell, Vice President Commercial Operations
responsible for factory operations as well as sales and
marketing.

Dated: June 14, 1991

Respectfully submitted,

MICHAEL A. MONAHAN GIBSON, DUNN & CRUTCHER

MICHAEL A MONAHAN

Attorneys for HAWKER PACIFIC

INC.

2825u

LA911630.016



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BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

In re Hawker Pacific, Inc., facility at 11310 Sherman Way, Sun Valley, California; San Fernando Valley Groundwater Investigation

EPA Reference T-4-1

TO REQUEST FOR INFORMATION

PURSUANT TO 42 U.S.C. § 9604(e)

TO REQUEST FOR INFORMATION PURSUANT TO 42 U.S.C. \$ 9604(e)

This response is made by Hawker Pacific Inc. ("Hawker Pacific") to the request for information under 42 U.S.C. §§ 9604 and 6907 made by the United States Environmental Protection Agency ("EPA") by letter dated February 1989, addressed to Robert E. (Bob) Wilson, regarding Hawker Pacific's facility at 11310 Sherman Way, Sun Valley, California 91352. This response does not constitute any admission by Hawker Pacific that it has contributed to or is responsible for the San Fernando Valley groundwater contamination referred to in the EPA's request, and Hawker Pacific denies any such contribution or responsibility.

The following sets forth each question in the EPA request, followed by Hawker Pacific's response thereto.

1. A description of the purpose and operations of your facility including a detailed description of any hazardous waste storage, treatment, or disposal operations. Include the dates of operation.

Response:

· ••• • ;

Hawker Pacific overhauls and repairs, and manufactures, aircraft landing gear and flight control equipment at this facility. It has conducted operations at the site since April 1, 1987, when it purchased assets for that purpose from Inchcape PLC. At that time, its facility included Buildings 1 through 4

(see Response to Request No. 3, below). In December 1987, its facility was expanded to include Building No. 5.

Hawker Pacific's operations at the site consist of receiving and inspection of material and equipment, machining and grinding, plating, painting, assembly and testing of new and reassembled equipment.

Operations at the site generate the following waste streams:

- 1. Plating shop wastes: (a) Plating shop production trash consisting of tape and masking materials is collected in steel drums. (b) Spent plating baths are periodically pumped out of the equipment and absorbent is added to it in steel drums. (c) Plating tank sludge also is periodically pumped out and absorbent is added in steel drums. (d) Plating operations rinse water is directed to a clarifier tank prior to discharge to the publicly owned treatment works ("POTW"). Clarifier sludge is periodically pumped out, and dewatered using an onsite press. The sludge is placed in steel drums, and the water is returned to the clarifier tank. Steel drums of all these plating shop wastes are hauled offsite to a permitted disposal site.
- 2. Several other types of miscellaneous liquid wastes are generated by the equipment used at the site: machinery waste oil, water soluble coolant from metal-working machinery, magnetic particle oil used for product testing, spent hydraulic fluids, degreasing solvents and paint thinners and solvent. These liquids are collected in steel drums and shipped offsite for recycling or disposal.

Steel drums in which the waste is accumulated are stored temporarily in a paved storage compound in the yard at the facility. These operations and waste streams have remained essentially the same since Hawker-Pacific began operations at the facility.

(j.)

- 2. A detailed description of all hazardous substances and hazardous wastes that were or are used or produced in operation or in production-related processes at your facility(s). Of particular importance is your information regarding past and present chlorinated solvent usage including but not limited to carbon tetrachloride (CTC), trichloroethylene (TCE), and tetrachloroethylene (PCE). For each substance and each waste used or generated, provide the following information.
 - a. The common chemical name, specific chemical name, and chemical composition by volume for liquids and weight for solids;
 - b. The total amount, in gallons for liquids and tons for solids, or annual usage or generation;
 - The methods and processes used to generate, store, treat, and dispose of, and otherwise handle each substance;
 - d. When and where the above processes occurred and are occurring. Please specify dates and locations as precisely as possible. Location information should include, but not limited to, information pertaining to tanks, ponds, treatment facilities, and other units which were historically used to treat, store and/or dispose of hazardous substances but which may no longer exist.

Response:

The following is a list of the hazardous materials used, stored, or produced at this site:

Liquid Wastes:
Shell Tellus Oil
Hydrocarbon Mixture 99%
55 Gallons a Year Usage
Used for lubricating machinery in the machine shop areas in
Buildings 1 and 2.
Disposed of by recycling off-site

Shell Garia Oil-CHydrocarbon Mixture 99%
50 gallons a year usage
Used for lubricating machinery in the machine shop areas in
Buildings 1 and 2
Recycled off-site

()

(*)

Trichloraethane
Trichloraethane 1.1.1. 100%
600 Gallons a Year Usage
Used for degreasing machined parts in the plating shop area in
Building 2
Recycled off-site

Red Oil
Hydraulic Fluid H-5606
Mixture 99% CAS# 64742-46-2, 64741-97-5, 64742-53-6
250 gallons a year usage
Used to fill and test hydraulic units before shipment, in the test room in Building 3
Disposed of by recycling off-site

Methylene Chloride
Methylene Chloride 100% CAS# 75-09-2
50 gallons a year usage
Used in assembly of the components in the assembly department in
Building 3
Recycled off-site

Rho-Solv 1204
Rho-Solv 1204 100% CAS# 64742-89-8
1200 gallons a year usage
Used to clean parts and machinery in Buildings 2, 3 and 4
Recycled off-site

Mag-Oil-C
Deodorized Kerosene 96% Parafins, 2% Benzene
200 gallons a year usage
Used in magnetic particle inspection equipment in solvent tanks
in NDT (non-destructive testing) Department in Building 2
Recycled off-site

Rubbing Alcohol
Isopropyl Alcohol
60 gallons a year usage
Used to clean hydraulic equipment during assembly process in
Building 3
Recycled off-site

Chase 310
Lacquer Thinner 22% Toluene, 50% Ketone, 5% Glycolethers, 22% Petroleum Hydrocarbons
150 gallons usage
Used for cleaning parts to be painted, paint gun cleanup and thinning of paints in Building 4
Recycled off-site

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MEK
Methyl Ethyl Ketone 100% CASE# 78-93-3
70 gallons a year usage
Used for cleaning parts in plating and assembly and test
departments in Buildings 2 and 3
Recycled off-site

Water Soluble Coolant
Waste Oil and Water
3000 gallons a year usage
Used for cooling during grinding and metal working in machine shop areas in Buildings 1 and 2
Recycled off-site

Solid Wastes:

Cyanide/Cadmium Waste
3/4 cubic yards a year
Plating tank sludge, spent plating solution in plating shop in
Building 2
Land fill disposal

Nickel Waste
3/4 cubic yards a year
Plating tank sludge, spent plating solution in plating shop in
Building 2
Land fill disposal

Chromium Waste
7 cubic yards a year
Plating tank sludge, spent plating solution in plating shop in
Building 2
Recycled off-site

Metal Hydroxide Waste
2 cubic yards a year
Waste water treatment solids from the treating of metal finishing
rinse water
Recycled off-site

Oil and Grease Waste
3/4 cubic yards a year
Residue from oil product drums, from storage tank for water
soluble coolant in yard storage
Recycled off-site

Production Trash:

()

Masking Tape and Materials
From Building 2 plating shop as described in response to request
No. 1 above
Land Fill Disposal

All of the materials referred to above are used in and handled by machinery, vessels, other equipment, piping or drums (both before and after becoming waste or recyclable materials) located above concrete or paved floors or pads so that any liquid leak or release would be promptly visible, with two exceptions: The plating waste water clarifier tank in Building 2 is partially below grade, and hydraulic fluid (red oil) and related compressor oil drips used for testing equipment are captured with compressor condensate water in two small sumps (approx. 18" x 18" x 18" each) located next to each other outside Building 3. A sample boring has been placed in the location of the plating clarifier. (See Response to Request No. 8.) The integrity of the two small sumps is and has been readily ascertained by visual inspection.

3. Any photographs, maps, diagrams regardless of their date, which show areas where hazardous substances or hazardous wastes have been made or may be located.

Response:

See enclosed facility diagram, document "A".

4. A description of past and present disposal practices of hazardous substances and hazardous wastes generated or used at your facility. If off-site disposal of wastes has occurred, please provide a detailed description, including copies of manifests of hazardous substances and hazardous wastes, the names and addresses of transporters that have ever been engaged for the purpose of transporting hazardous substances or hazardous wastes from your facility, and the location to where the waste was hauled.

Response:

See responses to Requests 1 and 2, above. Hawker
Pacific's past and present hazardous waste disposal practices
are: All hazardous substances for disposal are profiled (sampled
and analyzed), packaged and transported by an approved
transporter to a disposal site or recycler that is authorized to
accept that substance.

Enclosed are copies of manifests covering from 1987 to present date, document nos. HP000001 - HP000042.

Transporters used:

Disposal Control Inc. 1369 W. 9th Street Upland, CA 91786

King & King Drain Oil Service 635 Obispo Long Beach, CA 90814

Locations to which materials were hauled are shown on the manifests.

5. Locations and detailed descriptions of all monitoring wells, supply wells, injection wells, and underground tanks at your facility.

Response:

One underground tank, which has not been used by Hawker Pacific, recently has been discovered at the back of Building 1,

between Buildings 1 and 2. (See diagram supplied in Response to Request No. 3.)

6. Is your facility(s) currently connected to a sewer line? If so, please identify the sewage system, date of connection, and types of wastes discharged. If you are or at some time operated your facility(s) without a sewer line connection, please identify the method of waste water disposal that you use or did use. Specifically, have you or are you using leach field(s), septic tank(s), or any other method of onsite disposal.

Response:

Site Buildings Nos. 1, 2, and 4 are connected to a POTW sewer line. Waste streams discharged into this sewer are biological waste, and plating rinse waters that have been pretreated as described in Response to Request No. 1, above. These sewer connections have been in place since Hawker Pacific began operations at these portions of the site in April 1987.

Buildings Nos. 3 and 5 are connected to septic tanks with leach lines. These have been in place since Hawker Pacific began operations at these portions of the site, in April and December 1987, respectively.

7. All analyses from sampling of monitoring and supply wells, underground tanks, soil samples, and soil-gas sampling conducted at your facility. Please include any reports written by consultant(s) about these sample analyses.

Response:

Pursuant to direction of the California Regional Water Quality Control Board, Los Angeles Region ("LARWQCB"), on December 1, 1988, Law Environmental Inc. performed a subsurface investigation at two locations on this site to determine if any

subsurface contamination to soil or ground water had occurred. The report is produced herewith, document "B".

8. Are you or your consultants planning to perform any investigations of the soil, water (ground or surface), geology, geohydrology, or air quality on or about the site? If so, please describe the planned investigation(s).

Response:

Hawker Pacific has been requested by California
Regional Water Quality Control Board to perform an additional two
borings in the area of Building 3 and 5 to a depth of 40 feet as
well as two borings inside Building 2 to a depth of 10 feet.
Final results are not yet received. Air emissions testing was
conducted February 13, 1989 by Truesdail Labs to determine total
and hexavalent chrome from this facility's three hard chrome
plating tanks.

9. A list of all current and former employees, agents, contractors, consultants, company officers, and other personnel who may possess knowledge or information relevant to this inquiry. This list should include each individual's name, address, telephone number, and job title or function.

Response:

<u>Name</u>	Address & Phone No.	<u>Title</u>	Term. Date
Erik Johnson	FX-6: Personal Information	Hazardous Wast Process Superv	
Harry Gunn	FX-6: Personal Information	Machine Shop S	up v.
Bud Bailes	FX-6: Personal Information	Plater Journey	man/
Ed Conley	FX-6: Personal Information		

Name	Address & Phone No.	Title	Term. Date
Stan LaSalle	FX-6: Personal Information	EPA/Hazardous Waste Engineer	3-4-88
Lewis Augustin	ne FX-6: Personal Information	Supervisor Sr.	7-31-87

10. Length of time your company has been at the site location and any information you have regarding former occupants of this location and their hazardous waste practices.

Response:

Hawker Pacific has occupied this site from April 1, 1987, except it has occupied Building 5 since December 1987. Prior operators at the site excluding Building 5, based on information and belief, were:

Inchcape PLC.	6-1-82	to 4-1-87			
Parker Corp.	Approx.	1980 to 6	-1-82		
Bertea		1979-1980			
Zero Corporation	Approx.	1977-1979			
Canoga Industries	Approx.	1968-1977			
Stellar Hydraulics	Approx.	1963-1969	(Buildings	1	and
			2 only)		•

Some of these may not have occupied the entire site of Buildings 1 - 4.

The company occupying Building 5 immediately prior to Hawker Pacific was Laura Scudder. Hawker Pacific lacks information as to other prior occupants of Building 5.

11. Any information regarding use and disposal of chlorinated solvents by any person or business in the San Fernando Valley.

Response:

Hawker Pacific objects to this request as beyond the scope of EPA's authority. Without waiving this objection, Hawker Pacific produced herewith copies of manifests relating to prior operators at this location that Hawker Pacific possesses, as documents no. HP000043 - HP000128.

12. A descriptive list of all insurance policies held by your company. The description should include the dates during which each policy was in force, the general type of policy (e.g., comprehensive, general liability, automobile), the insurance company issuing the policy, the policy number, and any specific provision of the policy which may relate to claims for environmental damages.

Response:

See document entitled "Hawker Pacific Inc. Insurance Policy List, document "C", produced herewith in a separate envelope labelled as confidential information. This document and the information contained therein is confidential and subject to 40 C.F.R. § 2.203(b), and is to be so treated.

13. A detailed description of all hazardous substance and hazardous waste spills, leaks and incidents, as well as any clean-up actions undertaken during the history of your facility's operation.

Response:

No known spills, leaks or incidents during Hawker Pacific's operation at this location.

A list of the names and addresses of all solvent suppliers and solvent recyclers from which either products or services were acquired for use by your facility.

Response:

Rho-Chem Corp P.O. Box 6021 H25-Isis Ave. Inglewood, CA 90301 Supplier and recycler

PRI

1835 E. 29th Street Signal Hill, CA

Recycler

DeMenno-Kerdoon Recycler

2000 N. Alameda Street Compton, CA 90222

Casmalia Resource Management Recycler NTU Road

Casmalia, CA 93429

Shell Oil Co. Supplier 14117 Aetna Van Nuys, CA 91408

Holchem Chemical 13546 Desmond Street Pacoima, CA 913131

Supplier

An audited set of financial statements which includes a Statement of Financial Position/Balance Sheet, Income Statement, and Statement of Changes in Working Capital, and any other supplementary information for your company's most recent fiscal year.

Response:

See financial statements, document "D", produced herewith in a separate envelope labelled as confidential This document and the information therein is information. confidential subject to 40 C.F.R.§ 2.203(b), and is to be so treated.

16. Are you owned by another corporate entity as a subsidiary, division, or otherwise?

Response:

Yes. See document produced in response to Request No.

DATE: JULY 7, 1989

RICHARD J. DENNEY
MICHAEL A. MONAHAN
LAURA J. CARROLL

MCCUTCHEN, BLACK, VERLEGER & SHEA

Michael A. Monahan

Attorneys for HAWKER PACIFIC INC.

I, Robert E. Wilson, Vice President and General Manager of Hawker Pacific Inc. (the "Company"), directed employees under my supervision in a search for records in the possession of the company and in interviewing company employees with knowledge of the company's operations, chemical use and business practices, for purposes of preparing the responses to which this is attached. I believe that the search and interviews were diligent and, based thereon, that the factual responses to which this is attached are correct.

DATE: July 7, 1989

ROBERT E. WILSON

SUBSCRIBED AND SWORN TO BEFORE ME
THIS 0/4 DAY OF 1987.

lens 8- Decente.

OFFICIAL SEAL
LUIS E ZURITA
MOTARY PUBLIC • CALIFORNIA
LOS ANGELES COUNTY
TY COMM. expires JAN 8, 1991

EXHIBITS TO RESPONSE OF HAWKER PACIFIC INC. TO EPA REQUEST FOR INFORMATION PURSUANT TO CERCLA § 104(e) (INCLUDING CONFIDENTIAL INFORMATION)

VOLUME I of II

Exhibits 1-12

INDEX OF EXHIBITS TO RESPONSE OF HAWKER PACIFIC INC. TO EPA REQUEST FOR INFORMATION PURSUANT TO CERCLA § 104(e) (INCLUDING CONFIDENTAL INFORMATION)

<u>Number</u>	<u>Description</u>
1.	Lease from Wagner and Bassinger to Hawker Pacific (Building 1, 2 and 3)
2.	Lease from Industrial Bowling to Hawker Pacific (Building 5).
3.	Lease from Industrial Bowling Corp. to Hawker Pacific
4.	Sealed map of facility.
5.	Law Environmental, Inc. Report (January 4, 1989).
6.	Law Environmental, Inc. Report (August 22, 1989).
7.	Law Environmental, Inc. Report (January 11, 1990).
8.	Law Environmental, Inc. Report (November 26, 1990).
9.	Law Environmental, Inc. Work Proposal (May 22, 1991).
10.	Material Safety Data Sheets
11.	Hazardous Waste Manifests
12.	Sewer Permit
13.	Insurance Policies (1986-1987).
14.	Insurance Policies (1987-1988).
15.	Insurance Policies (1988-1989).
16.	Insurance Policies (1989-1990).
17.	Insurance Policies (1990-1991).
18.	1988 Federal Tax Return.

- 19. 1989 Federal Tax Return.
- 20. 1988 Hawker Siddeley Annual Report.
- 21. 1989 Hawker Siddeley Annual Report.
- 22. 1990 Hawker Siddeley Annual Report.
- 23. 1989 Hawker Pacific Financial Statements.
- 24. Articles of Incorporation.
- 25. By-Laws.

LA911650.030

Blolgs 1, 2 & 3

LEASE BETWEEN

GORDON N. WAGNER AND JOSEPH W. BASINGER

AS LESSORS AND

HAWKER PACIFIC, INC. AS LESSEE

OF PROPERTY COMMONLY KNOWN AS

11310 SHERMAN WAY, SUN VALLEY, CALIFORNIA

2000

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LEASE

- 1. PARTIES. This Lease, dated, for reference purposes only, March 26, 1987, is made by and between GORDON N. WAGNER and JOSEPH W. BASINGER ("Lessor") and HAWKER PACIFIC, INC., a California corporation ("Lessee").
- 2. PREMISES. Lessor hereby leases to Lessee and Lessee leases from Lessor for the term, at the rental, and upon all of the conditions set forth herein, that certain real property situated in the County of Los Angeles, State of California, commonly known as 11310 Sherman Way, Sun Valley, California 91352 and described as:

That portion of the east 100 feet of the west half of lot 62 of Lankershim Ranch Land and Water Company's subdivision of the east 12,000 acres of the south half of the Ranch X Mission of San Fernando, in the city of Los Angeles, county of Los Angeles, State of California as per map recorded in Book 31, Pages 39 seq. of miscellaneous records in the office of the City Recorder of said county line northerly of a line, extending south 89 degrees 4 feet 25 inches east from a point in the centerline of Tujunga Avenue, 50 feet wide distant north zero degrees 00 feet 30 inches west 406.44 feet from the intersection of said centerline of the westerly prolongation of the southerly line of said lot 62. Except therefrom the southerly 30 feet thereof.

3. TERM.

3.1. Term. The term of this Lease shall be for Ten (10) years commencing on April 1, 1987 and ending on March 31, 1997 unless sooner terminated pursuant to any provision hereof.

3.2. Delay in Commencement. Notwithstanding said commencement date, if for any reason Lessor cannot deliver possession of the Premises to Lessee on said date, Lessor shall not be subject to any liability therefor, nor shall such failure affect the validity of this Lease or the obligations of Lessee thereunder or extend the term hereof, but in such case Lessee shall not be obligated to pay rent until possession of the Premises is tendered to Lessee; provided, however, that if Lessor shall not have delivered possession of the Premises within sixty (60) days from said commencement date, Lessee may, at Lessee's option, by notice in writing to Lessor within ten (10) days thereafter, cancel this Lease, in which event the parties shall be discharged from all obligations hereunder. If Lessee occupies the Premises prior to said commencement date, such occupancy shall be subject to all provisions hereof, such occupancy shall not advance the termination date, and Lessee shall pay rent for such period at the initial monthly rates set forth below.

4. RENT.

4.1. Rent for First Five Years. Lessee shall pay to Lessor as rent for the Premises in accordance with the following schedule:

		P	eriod	Annual <u>Rent</u>	Monthly Rent				
1.	April	1,	1987	to	March	31,	1988	\$204,000	\$17,000
2.	April	1,	1988	to	March	31,	1989	\$209,100	\$17 ,4 25
3.	April	1,	1989	to	March	31,	1990	\$229 , 305	\$19,108.75
4.	April	1,	1990	to	March	31,	1991	\$238,515	\$19,876.25
5.	April	1,	1991	to	March	31,	1992	\$247,200	\$20,600

4.2. Rent for Second Five Years. The annual rent shall be adjusted as of the first day of April of each year (the "Adjustment Date") beginning in the year 1992, according to the following computation:

The base for computing the adjustment is the index figure for the month of January, 1987 (the "Base Index"), as shown in the Consumer Price Index ("CPI") for all urban consumers for the Los Angeles area based on the year 1967 as published by the United States Department of Labor's Bureau of Labor Statistics. The Base Index, which is subject to verification, is 335.1.

Angeles area published for the month of January preceding the month of the Adjustment Date, ("Adjustment Index") has changed over the Base Index, the annual rent for the following one-year period (until the next rent adjustment) shall be set by multiplying the initial annual rent of Two Hundred Four Thousand Dollars (\$204,000) by a fraction, the numerator of which is the Adjustment Index and the denominator of which is the Base Index. If the amount of annual rental increase cannot be ascertained at the time it is effective, it shall be paid within thirty (30) days after the time such increase is determined and notice thereof mailed to Lessee at the Premises.

As an example, if the CPI for all urban consumers for the Los Angeles area for January 1992 is 475, then the Annual Rent for April 1, 1992 to March 31, 1993 would be \$289,167.41, calculated as follows:

 $$204,000 \times 475/335.1 = $289,167.41$

Similarly, if the CPI for January 1993 is 500, the Annual Rent for April 1, 1993 to March 31, 1994 would be \$304,386.75, calculated as follows:

 $$204,000 \times 500/335.1 = $304,386.75.$

In no event shall the annual rent for April 1, 1992 to March 31, 1993 be less than Two Hundred Fifty-Nine Thousand Five Hundred Sixty Dollars (\$259,560).

In no event shall the annual rent for April 1, 1993 to March 31, 1994 be increased by less than three percent (3%) of the annual rent for April 1, 1992 to March 31, 1993.

In no event shall the annual rent for April 1, 1994 to March 31, 1995 be increased by less than three percent (3%) of the annual rent for April 1, 1993 to March 31, 1994.

In no event shall the annual rent for April 1, 1995 to March 31, 1996 be increased by less than three percent (3%) of the annual rent for April 1, 1994 to March 31, 1995.

In no event shall the annual rent for April 1, 1996 to March 31, 1997 be increased by less than three percent (3%) of the annual rent for April 1,1995 to March 31, 1996.

The index for the Adjustment Date shall be the one reported in the United States Department of Labor's newest comprehensive official index when in use and most nearly answering and the foregoing description of the index to be

used. If it is calculated from a base different from the base year 1967 used for the Base Index above, the base figure used for calculating the adjustment percentage shall first be converted under a formula supplied by the Bureau.

If the described index shall no longer be published, another generally recognized as authoritative shall be substituted by agreement of the Lessor and Lessee. If they are unable to agree within thirty (30) days after demand by either the Lessor or Lessee, the substitute index shall, on application of either party, be selected by the chief officer of the San Francisco Regional Office of the Bureau of Labor Statistics or its successor.

Rent for any period during the term hereof which is for less than one month shall be a pro rata portion of the monthly installment. Rent shall be payable in lawful money of the United States to Lessor at the address stated herein or to such other persons or at such other places as Lessor may designate in writing.

- 4.3. Monthly Rent Payments. Annual rent is payable in equal monthly installments, in advance, on the first day of each month of the period hereof. Lessee shall pay Lessor on April 1, 1987 or on the date this Lease is executed, whichever is later, \$17,000 as rent for the first month.
- 5. CONDITION TO ENFORCEABILITY. Flight Accessory Services, Inc. ("FAS") and HAWKER PACIFIC INC. ("HAWKER PACIFIC") have entered into a purchase and sales agreement (the "Agreement") dated February 25, 1987. The Agreement is

for the purchase by HAWKER PACIFIC of all trade, fixtures, equipment, inventory and supplies of FAS located at, among other places, the Premises which is the subject of this Lease. The enforceability of this Lease is conditioned on the consummation of the Agreement between HAWKER PACIFIC and FAS on March 30, 1987 or within sixty (60) days thereafter.

6. SECURITY DEPOSIT. Lessor currently holds Twenty-Five Thousand Three Hundred Sixty-Eight Dollars (\$25,368) as security deposit from FAS pursuant to a lease encompassing the Premises dated November 6, 1975 between GORDON N. WAGNER and JOSEPH W. BASINGER, Lessors, and Stellar Hydraulics Company, Lessee (the "Stellar Lease"). FAS is the assignee of the Stellar Lease.

HAWKER PACIFIC warrants that FAS has agreed to permit GORDON N. WAGNER and JOSEPH W. BASINGER to retain the \$25,368 as security deposit for HAWKER PACIFIC under this Lease.

Retention by Lessor of the \$25,368 from FAS under the Stellar Lease for the benefit of HAWKER PACIFIC under the present Lease does not obligate HAWKER PACIFIC to GORDON N. WAGNER or JOSEPH W. BASINGER, the lessors under the Stellar Lease, to any of FAS' liabilities, if any, under the Stellar Lease. When this Lease is terminated the security deposit will be returned to HAWKER PACIFIC in accordance with the provisions of this Lease.

HAWKER PACIFIC, as Lessee, however, acknowledges that FAS has made some changes to the structural facilities of the Premises which altered the Premises from its original

state as it existed when FAS first entered the Premises as assignee to the Stellar Lease. HAWKER PACIFIC agrees that, if demand is made by Lessor at the termination of this Lease, it shall restore the Premises to the original state that existed when FAS first entered the Premises.

If Lessee fails to pay rent or other charges due hereunder, or otherwise defaults with respect to any provision of this Lease, Lessor may use, apply or retain all or any portion of said deposit for the payment of any rent or other charge in default or for the payment of any other sum to which Lessor may become obligated by reason of Lessee's default, or to compensate Lessor for any loss or damage which Lessor may suffer thereby. If Lessor so uses or applies all or any portion of said deposit, Lessee shall within ten (10) days after written demand therefor deposit cash with Lessor in an amount sufficient to restore said deposit to the full amount hereinabove stated and Lessee's failure to do so shall be a material breach of this Lease. Lessor shall not be required to keep said deposit separate from its general accounts. If Lessee performs all of Lessee's obligations hereunder, said deposit, or so much thereof as has not theretofore been applied by Lessor, shall be returned, without payment of interest or other increment for its use, to Lessee (or, at Lessor's option, to the last assignee, if any, of Lessee's interest hereunder) at the expiration of the term hereof, and after Lessee has vacated the Premises.

7. USE.

- 7.1. <u>Use</u>. The Premises shall be used and occupied only for the manufacturing, storage and distribution of Lessee's products and related activities.
- 7.2. Compliance with Law. Lessee shall, at Lessee's expense, comply promptly with all applicable statutes, ordinances, rules, regulations, orders and requirements in effect during the term or any part of the term hereof regulating the use by Lessee of the Premises. Lessee shall not use or permit the use of the Premises in any manner that will tend to create waste or a nuisance or, if there shall be more than one tenant of the building containing the Premises, which shall tend to disturb such other tenants.
- 7.3. Condition of Premises. Lessee hereby accepts the Premises in their condition existing as of the date of the commencement hereof, subject to all applicable zoning, municipal, county and state laws, ordinances and regulations governing and regulating the use of the Premises, and accepts this Lease subject thereto and to all matters disclosed hereby and by any exhibits attached hereto. Lessee acknowledges that neither Lessor nor Lessor's agent has made any representation or warranty as to the suitability of the Premises for the conduct of Lessee's business.

8. MAINTENANCE, REPAIRS AND ALTERATIONS.

8.1. Lessee's Obligations. Lessee shall during the term of this Lease keep in good order, condition and repair, the Premises and every part thereof, structural or

non-structural, and all adjacent sidewalks, landscaping, driveways, parking lots, fences and signs located in the areas which are adjacent to and included with the Premises. Lessor shall incur no expense nor have any obligation of any kind whatsoever in connection with maintenance of the Premises, and Lessee expressly waives the benefits of any statute now or hereafter in effect which would otherwise afford Lessee the right to make repairs at Lessor's expense or to terminate this Lease because of Lessor's failure to keep the Premises in good order, condition and repair.

- 8.2. <u>Surrender</u>. On the last day of the term hereof, or on any sooner termination, Lessee shall surrender the Premises to Lessor in the same condition as when received, broom clean, ordinary wear and tear excepted. Lessee shall repair any damage to the Premises occasioned by the removal of Lessee's trade fixtures, furnishings and equipment pursuant to Paragraph 8.4(c), which repair shall include the patching and filling of holes and repair of structural damage.
- 8.3. Lessor's Rights. If Lessee fails to perform Lessee's obligations under this Paragraph 8, Lessor may at its option (but shall not be required to) enter upon the Premises, after ten (10) days' prior written notice to Lessee, and put the same in good order, condition and repair, and the cost thereof together with interest thereon at the rate of ten percent (10%) per annum shall become due and payable as additional rental to Lessor together with Lessee's next rental installment.

8.4. Alterations and Additions.

- Lessee shall not, without Lessor's prior written consent, make any alterations, improvements, additions, utility installations in, on or about the Premises, except for non-structural alterations not exceeding One Thousand Dollars (\$1,000) in cost. As used in this Paragraph 8.4, the term "utility installations" shall include bus ducting, power panels, fluorescent fixtures, space heaters, conduits and wiring. As a condition to giving such consent, Lessor may require that Lessee agree to remove any such alterations, improvements, additions or utility installations at the expiration of the term, and to restore the Premises to their prior condition. As a further condition to giving such consent, Lessor may require Lessee to provide Lessor, at Lessee's sole cost and expense, a lien and completion bond in an amount equal to one and one-half (1-1/2) times the estimated cost of such improvements, to insure Lessor against any liability for mechanics' and materialmen's liens and to insure completion of the work.
- (b) Lessee shall pay, when due, all claims for labor or materials furnished or alleged to have been furnished to or for Lessee at or for use in the Premises, which claims are or may be secured by any mechanics' or materialmen's lien against the Premises or any interest therein. Lessee shall give Lessor not less than ten (10) days' notice prior to the commencement of any work in the Premises, and Lessor shall have the right to post notices of non-responsibility in or on the Premises as provided by law.

set forth in Paragraph 8.4(a), all alterations, improvements, additions, and utility installations (whether or not such utility installations constitute fixtures of Lessee), which may be made on the Premises, shall become the property of Lessor and remain upon and be surrendered with the Premises at the expiration of the term. Notwithstanding the provisions of this Paragraph 8.4(c), Lessee's machinery and equipment, other than that which is affixed to the Premises so that it cannot be removed without material damage to the Premises, shall remain the property of Lessee and may be removed by Lessee subject to the provisions of Paragraph 8.2.

9. INSURANCE: INDEMNITY.

- 9.1. Insuring Party. As used in this Paragraph 9, the term "insuring party" shall mean the party who has the obligation to obtain the insurance required hereunder. The insuring party in this case shall be designated following the signatures of the parties below. Whether the insuring party is the Lessor or the Lessee, Lessee shall, as additional rent for the Premises, pay the cost of all insurance required hereunder. If Lessor is the insuring party Lessee shall, within ten (10) days following demand by Lessor, reimburse Lessor for the cost of the insurance so obtained.
- 9.2. Liability Insurance. The insuring party shall obtain and keep in force during the term of this Lease a policy of comprehensive public liability insurance insuring Lessor and Lessee against any liability arising out

of the ownership, use, occupancy or maintenance of the Premises and all areas appurtenant thereto. Such insurance shall be in an amount of not less than Three Hundred Thousand Dollars (\$300,000) for injury to or death of one person in any one accident or occurrence and in an amount of not less than Five Hundred Thousand Dollars (\$500,000) for injury to or death of more than one person in any one accident or occurrence. Such insurance shall further insure Lessor and Lessee against liability for property damage of at least Fifty Thousand Dollars (\$50,000). The limits of said insurance shall not, however, limit the liability of Lessee hereunder. In the event that the Premises constitute a part of a larger property said insurance shall have a Lessor's Protective Liability endorsement attached thereto. If the insuring party shall fail to procure and maintain said insurance the other party may, but shall not be required to, procure and maintain the same, but at the expense of Lessee.

9.3. Property Insurance. The insuring party shall obtain and keep in force during the term of this Lease a policy or policies of insurance covering loss or damage to the Premises, in the amount of the full replacement value thereof, against all perils included within the classification of fire, extended coverage, vandalism, malicious mischief, special extended perils (all risk) and sprinkler leakage. Said insurance shall provide for payment of loss thereunder to Lessor or to the holder of a first mortgage or deed of trust on the Premises. The insuring party shall, in

addition, obtain and keep in force during the term of this Lease a policy of rental income insurance covering a period of six (6) months, with loss payable to Lessor. If the insuring party shall fail to procure and maintain said insurance the other party may, but shall not be required to, procure and maintain the same, but at the expense of Lessee. Lessor and Lessee shall agree in writing each year as to the insurable value of the Premises leased herein.

9.4. Insurance Policies. Insurance required hereunder shall be in companies rated AAA or better in "Best's Insurance Guide." The insuring party shall deliver to the other party copies of policies of such insurance or certificates evidencing the existence and amounts of such insurance with loss payable clauses satisfactory to Lessor. No such policy shall be cancellable or subject to reduction of coverage or other modification except after ten (10) days' prior written notice to Lessor. If Lessee is the insuring party Lessee shall, within ten (10) days prior to the expiration of such policies, furnish Lessor with renewals or "binders" thereof, or Lessor may order such insurance and charge the cost thereof to Lessee, which amount shall be payable by Lessee upon demand. Lessee shall not do or permit to be done anything which shall invalidate the insurance policies referred to in Paragraph 9.3. Lessee does or permits to be done anything which shall increase the cost of the insurance policies referred to in Paragraph 9.3, then Lessee shall forthwith upon Lessor's demand reimburse Lessor for any additional premiums attributable to any act or omission or operation of Lessee causing such increase in the cost of insurance. If Lessor is the insuring party, and if the insurance policies maintained hereunder cover other improvements in addition to the Premises, Lessor shall deliver to Lessee a written statement setting forth the amount of any such insurance cost increase and showing in reasonable detail the manner in which it has been computed.

- each hereby waive any and all rights of recovery against the other, or against the officers, employees, agents and representatives of the other, for loss of or damage to such waiving party or its property or the property of others under its control to the extent that such loss or damage is insured against under any insurance policy in force at the time of such loss or damage. The insuring party shall, upon obtaining the policies of insurance required hereunder, give notice to the insurance carrier or carriers that the foregoing mutual waiver of subrogation is contained in this Lease.
- 9.6. Indemnity. Lessee shall indemnify and hold harmless Lessor from and against any and all claims arising from Lessee's use of the Premises, or from the conduct of Lessee's business or from any activity, work or things done, permitted or suffered by Lessee in or about the Premises or elsewhere and shall further indemnify and hold harmless Lessor from and against any and all claims arising from any breach or default in the performance of any obligation on

Lessee's part to be performed, under the terms of this Lease, or arising from any negligence of the Lessee, or any of Lessee's agents, contractors, or employees, and from and against all costs, attorney's fees, expenses and liabilities incurred in the defense of any such claim or any action or proceeding brought thereon; and in case any action or proceeding be brought against Lessor by reason of any such claim, Lessee upon notice from Lessor shall defend the same at Lessee's expense. Lessee, as a material part of the consideration to Lessor, hereby assumes all risk of damage to property or injury to persons, in, upon or about the Premises arising from any cause and Lessee hereby waives all claims in respect thereof against Lessor.

9.7. Exemption of Lessor from Liability. Lessee hereby agrees that Lessor shall not be liable for injury to Lessee's business or any loss of income therefrom or for the damage to the goods, wares, merchandise or other property of Lessee, Lessee's employees, invitees, customers, or any other person in or about the Premises, nor shall Lessor be liable for injury to the person of Lessee, Lessee's employees, agents or contractors, whether such damage or injury is caused by or results from fire, steam, electricity, gas, water or rain, or from the breakage, leakage, obstruction or other defects of pipes, sprinklers, wires, appliances, plumbing, air conditioning or lighting fixtures, or from any other cause, whether the said damage or injury results from conditions arising upon the Premises or upon other portions of the building of which the Premises are a part, or from

other sources or places, and regardless of whether the cause of such damage or injury or the means of repairing the same is inaccessible to Lessee. Lessor shall not be liable for any damages arising from any act or neglect of any other tenant, if any, of the building in which the Premises are located.

10. DAMAGE OR DESTRUCTION.

10.1. Partial Damage -- Insured. Subject to the provisions of Paragraph 10.4, if the Premises are damaged and such damage was caused by a casualty covered under an insurance policy required to be maintained pursuant to Paragraph 9.3, Lessor shall at Lessor's expense repair such damage as soon as reasonably possible and this Lease shall continue in full force and effect. Notwithstanding the above, if the Lessee is the insuring party, and if the insurance proceeds received by Lessor are not sufficient to effect such repair, Lessor shall give notice to Lessee of the amount required in addition to the insurance proceeds to effect such repair. Lessee may, at Lessee's option, contribute the required amount, but upon failure to do so within thirty (30) days following such notice, Lessor's sole remedy shall be, at Lessor's option and with no liability to Lessee, to cancel and terminate this lease. If Lessee shall contribute such amount to Lessor within said thirty (30) day period, Lessor shall make such repairs as soon as reasonably possible and this Lease shall continue in full force and effect. Lessee shall in no event have any right to reimbursement for any such amount so contributed.

Partial Damage -- Uninsured. Subject to the provisions of Paragraph 10.4, if at any time during the term hereof the Premises are damaged, except by a negligent or willful act of Lessee, and such damage was caused by a casualty not covered under an insurance policy required to be maintained pursuant to Paragraph 9.3. Lessor may at Lessor's option either (i) repair such damage as soon as reasonably possible at Lessor's expense, in which event this Lease shall continue in full force and effect, or (ii) give written notice to Lessee within thirty (30) days after the date of the occurrence of such damage of Lessor's intention to cancel and terminate this Lease as of the date of the occurrence of such damage. In the event Lessor elects to give such notice of Lessor's intention to cancel and terminate this Lease, Lessee shall have the right within ten (10) days after the receipt of such notice to give written notice to Lessor of Lessee's intention to repair such damage at Lessee's expense, without reimbursement from Lessor, in which event this Lease shall continue in full force and effect, and Lessee shall proceed to make such repairs as soon as reasonably possible. If Lessee does not give such notice within such ten (10) day period this Lease shall be cancelled and terminated as of the date of the occurrence of such damage.

10.3. <u>Total Destruction</u>. If at any time during the term hereof the Premises are totally destroyed from any cause whether or not covered by the insurance required to be maintained pursuant to Paragraph 9.3 (including any total

destruction required by any authorized public authority) this Lease shall automatically terminate as of the date of such total destruction.

10.4. <u>Damage Near End of Term</u>. If the Premises are partially destroyed or damaged during the last six (6) months of the term of this Lease, Lessor may at Lessor's option cancel and terminate this Lease as of the date of occurrence of such damage by giving written notice to Lessee of Lessor's election to do so within thirty (30) days after the date of occurrence of such damage.

10.5. Abatement of Rent: Lessee's Remedies.

- or damaged and Lessor or Lessee repairs or restores them pursuant to the provisions of this Article, the rent payable under Paragraph 4 for the period during which such damage, repair or restoration continues shall be abated in proportion to the degree to which Lessee's use of the Premises is impaired; provided, however, that the aggregate amount of abatement hereunder shall not exceed the total of rent payable under Paragraph 4 for a period of six (6) months. Except for abatement of rent, if any, Lessee shall have no claim against Lessor for any damage suffered by reason of any such damage, destruction, repair or restoration.
- (b) If Lessor shall be obligated to repair or restore the Premises under the provisions of this Paragraph 9 and shall not commence such repair or restoration within ninety (90) days after such obligation shall accrue, Lessee may at Lessee's option cancel and terminate

this Lease by giving Lessor written notice of Lessee's election to do so at any time prior to the commencement of such repair or restoration. In such event this Lease shall terminate as of the date of such notice. Any abatement in rent shall be computed as provided in Paragraph 10.5(a).

10.6. Termination -- Advance Payments. Upon termination of this Lease pursuant to this Paragraph 10, an equitable adjustment shall be made concerning advance rent and any advance payments made by Lessee to Lessor. Lessor shall, in addition, return to Lessee so much of Lessee's security deposit as has not theretofore been applied by Lessor.

11. REAL PROPERTY TAXES.

11.1. Payment of Taxes.

Lessee shall pay all real property taxes applicable to the Premises during the term of this Lease. All such payments shall be made at least ten (10) days prior to the delinquency date of such payment. Lessee shall promptly furnish Lessor with satisfactory evidence that such taxes have been paid. If any such taxes paid by Lessee shall cover any period of time prior to or after the expiration of the term hereof, Lessee's share of such taxes shall be equitably prorated to cover only the period of time within the tax fiscal year during which this Lease shall be in effect, and Lessor shall reimburse Lessee to the extent required. If Lessee shall fail to pay any such taxes, Lessor shall have the right to pay the same, in which case Lessee shall repay such amount to Lessor with Lessee's next rent installment

together with interest at the rate of ten percent (10%) per annum.

- herein, the term "real property tax" shall include any form of assessment, license fee, commercial rental tax, levy, penalty, or tax (other than inheritance or estate taxes), imposed by any authority having the direct or indirect power to tax, including any city, county, state or federal government, or any school, agricultural, lighting, drainage or other improvement district thereof, as against any legal or equitable interest of Lessor in the Premises or in the real property of which the Premises are a part, as against Lessor's right to rent or other income therefrom, or as against Lessor's business of leasing the Premises.
- 11.3. Joint Assessment. If the Premises are not separately assessed, Lessee's liability shall be an equitable proportion of the real property taxes for all of the land and improvements included within the tax parcel assessed, such proportion to be determined by Lessor from the respective valuations assigned in the assessor's work sheets or such other information as may be reasonably available. Lessor's reasonable determination thereof, in good faith, shall be conclusive.
- 11.4. Personal Property Taxes. Lessee shall pay prior to delinquency all taxes assessed against and levied upon trade fixtures, furnishings, equipment and all other personal property of Lessee contained in the Premises or elsewhere. When possible, Lessee shall cause said trade

fixtures, furnishings, equipment and all other personal property to be assessed and billed separately from the real property of Lessor.

12. UTILITIES. Lessee shall pay for all water, gas, heat, light, power, telephone and other utilities and services supplied to the Premises, together with any taxes thereon. If any such services are not separately metered to Lessee, Lessee shall pay a reasonable proportion to be determined by Lessor of all charges jointly metered with other premises.

13. ASSIGNMENT AND SUBLETTING.

- 13.1. Lessor's Consent Required. Lessee shall not voluntarily or by operation of law assign, transfer, mortgage, sublet, or otherwise transfer or encumber all or any part of Lessee's interest in this Lease or in the Premises, without Lessor's prior written consent, which Lessor shall not unreasonably withhold. Any attempted assignment, transfer, mortgage, encumbrance or subletting without such consent shall be void, and shall constitute a breach of this Lease.
- Lessor's consent, no subletting or assignment shall release Lessee of Lessee's obligation or alter the primary liability of Lessee to pay the rent and to perform all other obligations to be performed by Lessee hereunder. The acceptance of rent by Lessor from any other person shall not be deemed to be a waiver by Lessor of any provision hereof. Consent

to one assignment or subletting shall not be deemed consent to any subsequent assignment or subletting.

13.3. Attorney's Fees. In the event that Lessor shall consent to a sublease or assignment under Paragraph 12.1, Lessee shall pay Lessor's reasonable attorneys' fees not to exceed Five One Hundred Dollars (\$500) incurred in connection with giving such consent.

14. DEFAULTS: REMEDIES.

- 14.1. <u>Defaults</u>. The occurrence of any one or more of the following events shall constitute a material default and breach of this Lease by Lessee:
- (a) The vacating or abandonment of the Premises by Lessee.
- (b) The failure by Lessee to make any payment of rent or any other payment required to be made by Lessee hereunder, as and when due, where such failure shall continue for a period of three days after written notice thereof from Lessor to Lessee.
- (c) The failure by Lessee to observe or perform any of the covenants, conditions or provisions of this Lease to be observed or performed by Lessee, other than described in paragraph (b) above, where such failure shall continue for a period of thirty (30) days after written notice hereof from Lessor to Lessee; provided, however, that if the nature of Lessee's default is such that more than thirty (30) days are reasonably required for its cure, then Lessee shall not be deemed to be in default if Lessee commenced such cure

within said thirty (30) day period and thereafter diligently prosecutes such cure to completion.

- (d) (i) The making by Lessee of any general assignment, or general arrangement for the benefit of creditors; (ii) the filing by or against Lessee of a petition to have Lessee adjudged a bankrupt or a petition for reorganization or arrangement under any law relating to bankruptcy (unless, in the case of a petition filed against Lessee, the same is dismissed within sixty (60) days); (iii) the appointment of a trustee or receiver to take possession of substantially all of Lessee's assets located at the Premises or of Lessee's interest in this Lease, where possession is not restored to Lessee within thirty (30) days; or (iv) the attachment, execution or other judicial seizure of substantially all of Lessee's assets located at the Premises or of Lessee's interest in this Lease, where such seizure is not discharged within thirty (30) days.
- 14.2. Remedies. In the event of any such material default or breach by Lessee, Lessor may at any time thereafter, with or without notice or demand and without limiting Lessor in the exercise of any right or remedy which Lessor may have by reason of such default or breach:
- (a) Terminate Lessee's right to possession of the Premises by any lawful means, in which case this Lease shall terminate and Lessee shall immediately surrender possession of the Premises to Lessor. In such event Lessor shall be entitled to recover from Lessee all damages incurred by Lessor by reason of Lessee's default including, but not

limited to, the cost of recovering possession of the Premises; expenses of reletting, including necessary renovation and alteration of the Premises, reasonable attorney's fees, and any real estate commission actually paid; the worth at the time of award by the court having jurisdiction thereof of the amount by which the unpaid rent for the balance of the term after the time of such award exceeds the amount of such rental loss for the same period that Lessee proves could be reasonably avoided; that portion of the leasing commission paid by Lessor pursuant to Paragraph 16 applicable to the unexpired term of this Lease. Unpaid installments of rent or other sums shall bear interest from the date due at the rate of ten percent (10%) In the event Lessee shall have abandoned the Premises, Lessor shall have the option of (i) retaking possession of the Premises and recovering from Lessee the amount specified in this Paragraph 14.2(a), or (ii) proceeding under Paragraph 14.2(b).

- (b) Maintain Lessee's right to possession in which case this Lease shall continue in effect whether or not Lessee shall have abandoned the Premises. In such event Lessor shall be entitled to enforce all of Lessor's rights and remedies under this Lease, including the right to recover the rent as it becomes due hereunder.
- (c) Pursue any other remedy now or hereafter available to Lessor under the laws or judicial decisions of the State of California.

default unless Lessor fails to perform obligations required of Lessor within a reasonable time, but in no event later than thirty (30) days after written notice by Lessee to Lessor and to the holder of any first mortgage or deed of trust covering the Premises whose name and address shall have theretofore been furnished to Lessee in writing, specifying wherein Lessor has failed to perform such obligations; provided, however, that if the nature of Lessor's obligation is such that more than thirty (30) days are required for performance then Lessor shall not be in default if Lessor commences performance within such thirty (30) days period and thereafter diligently prosecutes the same to completion.

14.4. Late Charges. Lessee hereby acknowledges that late payment by Lessee to Lessor of rent and other sums due hereunder will cause Lessor to incur costs not contemplated by this Lease, the exact amount of which will be extremely difficult to ascertain. Such costs include, but are not limited to, processing and accounting charges, and late charges which may be imposed on Lessor by the terms of any mortgage or trust deed covering the Premises. ingly, if any installment of rent or any other sum due from Lessee shall not be received by Lessor or Lessor's designee within ten (10) days after such amount shall be due, Lessee shall pay to Lessor a late charge equal to ten percent (10%) of such overdue amount. The parties hereby agree that such late charge represents a fair and reasonable estimate of the

costs Lessor will incur by reason of late payment by Lessee. Acceptance of such late charge by Lessor shall in no event constitute a waiver of Lessee's default with respect to such overdue amount, nor prevent Lessor from exercising any of the other rights and remedies granted hereunder.

If the Premises or any portion 15. CONDEMNATION. thereof are taken under the power of eminent domain, or sold under the threat of the exercise of said power (all of which are herein called "condemnation"), this Lease shall terminate as to the part so taken as of the date the condemning authority takes title or possession, whichever first occurs. If more than ten percent (10%) of the floor area of the improvements on the Premises, or more than twenty-five percent (25%) of the land area of the Premises which is not occupied by any improvements, is taken by condemnation, Lessee may, at Lessee's option, to be exercised in writing only within ten (10) days after Lessor shall have given Lessee written notice of such taking (or in the absence of such notice, within ten (10) days after the condemning authority shall have taken possession) terminate this Lease as of the date the condemning authority takes such posses-If Lessee does not terminate this Lease in accordance with the foregoing, this Lease shall remain in full force and effect as to the portion of the Premises remaining, except that the rent shall be reduced in the proportion that the floor area taken bears to the total floor area of the building situated on the Premises. Any award for the taking of all or any part of the Premises under the power of

eminent domain or any payment made under threat of the exercise of such power shall be the property of Lessor, whether such award shall be made as compensation for diminution in value of this leasehold or for the taking of the fee, or as severance damages; provided, however, that Lessee shall be entitled to any award for loss of or damage to Lessee's trade fixtures and removable personal property. In the event that this Lease is not terminated by reason of such condemnation, Lessor shall, to the extent of severance damages received by lessor in connection with such condemnation, repair any damages to the Premises caused by such condemnation except to the extent that Lessee has been reimbursed therefor by the condemning authority. Lessee shall pay any amount in excess of such severance damages required to complete such repair.

16. BROKER'S FEE. None.

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17. GENERAL PROVISIONS.

17.1. Estoppel Certificate.

- (a) Lessee shall at any time upon not less than ten (10) days' prior written notice from Lessor execute, acknowledge and deliver to Lessor a statement in writing (i) certifying that this Lease is unmodified and in full force and effect (or, if modified, stating the nature of such modification and certifying that this Lease, as so modified, is in full force and effect) and the date to which the rent and other charges are paid in advance, if any, and (ii) acknowledging that there are not, to Lessee's knowledge, any uncured defaults on the part of Lessor hereunder, or specifying such defaults if any are claimed. Any such statement may be conclusively relied upon by any prospective purchaser or encumbrancer of the Premises.
- (b) Lessee's failure to deliver such statement within such time shall be conclusive upon Lessee (i) that

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this Lease is in full force and effect, without modification except as may be represented by Lessor, (ii) that there are no uncured defaults in Lessor's performance, and (iii) that not more than one (1) month's rent has been paid in advance.

- (c) If Lessor desire to finance or refinance the Premises, or any part thereof, Lessee hereby agrees to deliver to any lender designated by Lessor such financial statements of Lessee as may be reasonably required by such lender. Such statements shall include the past three (3) years' financial statements of Lessee. All such financial statements shall be received by Lessor in confidence and shall be used only for the purposes herein set forth.
- 17.2. Lessor's Liability. The term "Lessor" as used herein shall mean only the owner or owners at the time in question of the fee title or a lessee's interest in a ground lease of the Premises, and except as expressly provided in Paragraph 16, in the event of any transfer of such title or interest, Lessor herein named (and in case of any subsequent transfers the then grantor) shall be relieved from and after the date of such transfer of all liability as respects Lessor's obligations thereafter to be performed, provided that any funds in the hands of Lessor or the then grantor at the time of such transfer, in which Lessee has an interest, shall be delivered to the grantee. The obligations contained in this Lease to be performed by Lessor shall, subject as aforesaid, be binding on Lessor's successors and assigns, only during their respective periods of ownership.

- 17.3. <u>Severability</u>. The invalidity of any provision of this Lease as determined by a court of competent jurisdiction, shall in no way affect the validity of any other provision hereof.
- 17.4. <u>Interest on Past-Due Obligations</u>. Except as expressly herein provided, any amount due to Lessor not paid when due shall bear interest at ten percent (10%) per annum from the date due. Payment of such interest shall not excuse or cure any default by Lessee under this Lease.
 - 17.5. Time of Essence. Time is of the essence.
- 17.6. <u>Captions</u>. Article and paragraph captions are not a part hereof.
- ments. This Lease contains all agreements of the parties with respect to any matter mentioned herein. No prior agreement or understanding pertaining to any such matter shall be effective. This Lease may be modified in writing only, signed by the parties in interest at the time of the modification.
- 17.8: Notices. Any notice required or permitted to be given hereunder shall be in writing and may be served personally or by regular mail, addressed to Lessor and Lessee respectively at the addresses set forth after their signatures at the end of this Lease.
- 17.9. <u>Waivers</u>. No waiver by Lessor of any provision hereof shall be deemed a waiver of any other provision hereof or of any subsequent breach by Lessee of the same or any other provision. Lessor's consent to or

approval of any act shall not be deemed to render unnecessary the obtaining of Lessor's consent to or approval of any subsequent act by Lessee. The acceptance of rent hereunder by Lessor shall not be a waiver of any preceding breach by Lessee of any provision hereof, other than the failure of Lessee to pay the particular rent so accepted, regardless of Lessor's knowledge of such preceding breach at the time of acceptance of such rent.

- 17.10. Recording. Lessee may record this Lease or a "short form" memorandum of this Lease without Lessor's prior written consent. Either party shall, upon request of the other, execute, acknowledge and deliver to the other a "short form" memorandum of this Lease for recording purposes.
- 17.11. Holding Over. If Lessee remains in possession of the Premises or any part thereof after the expiration of the term hereof without the express written consent of Lessor, such occupancy shall be a tenancy from month to month at a rental in the amount of the last monthly rental plus all other charges payable hereunder, and upon all the terms hereof applicable to a month-to-month tenancy.
- 17.12. <u>Cumulative Remedies</u>. No remedy or election hereunder shall be deemed exclusive but shall, wherever possible, be cumulative with all other remedies at law or in equity.
- 17.13. <u>Covenants and Conditions</u>. Each provision of this Lease performable by Lessee shall be deemed both a covenant and a condition.

- 17.14. Binding Effect: Choice of Law. Subject to any provisions hereof restricting assignment or subletting by Lessee and subject to the provisions of Paragraph 17.2, this Lease shall bind the parties, their personal representatives, successors and assigns. This Lease shall be governed by the laws of the State of California.
 - 17.15. This section intentionally left blank.
- 17.16. Attorney's Fees. If either party or the broker named herein brings an action to enforce the terms hereof or declare rights hereunder, the prevailing party in any such action, on trial or appeal, shall be entitled to his reasonable attorney's fees to be paid by the losing party as fixed by the court. The provisions of this paragraph shall inure to the benefit of the broker named herein who seeks to enforce a right hereunder.
- 17.17. Lessor's Access. Lessor and Lessor's agents shall have the right to enter the Premises at reasonable times for the purpose of inspecting the same, showing the same to prospective purchasers, or lenders, and making such alterations, repairs, improvements or additions to the Premises or to the building of which they are a part as Lessor may deem necessary or desirable. Lessor may at any time place on or about the Premises any ordinary "For Sale" signs and Lessor may at any time during the last one hundred twenty (120) days of the term hereof place on or about the Premises any ordinary "For Lease" signs, all without rebate of rent or liability to Lessee.

- 17.18. <u>Signs and Auctions</u>. Lessee shall not place any sign upon the Premises or conduct any auction thereon without Lessor's prior written consent.
- 17.19. Merger. The voluntary or other surrender of this Lease by Lessee, or a mutual cancellation thereof, shall not work a merger, and shall, at the option of Lessor, terminate all or any existing subtenancies or may, at the option of Lessor, operate as an assignment to Lessor of any or all of such subtenancies.
- 17.20. Corporate Authority. If Lessee is a corporation, each individual executing this Lease on behalf of said corporation represents and warrants that he is duly authorized to execute and deliver this Lease on behalf of said corporation, in accordance with a duly adopted resolution of the Board of Directors of said corporation or in accordance with the Bylaws of said corporation, and that this Lease is binding upon said corporation in accordance with its terms. If Lessee is a corporation Lessee shall, within thirty (30) days after execution of this Lease, deliver to Lessor a certified copy of a resolution of the Board of Directors of said corporation authorizing or ratifying the execution of this Lease.
- 18. OCCUPANCY BY LESSEE. Should Premises be ready for occupancy prior or subsequent to April 1, 1987, Lessee shall take possession of Premises within one (1) week after being advised by Lessor of Lessor's receipt of said Notice of Completion and the rent shall commence upon the first day of said possession. Should possession take place prior to the

first day of a month or after the first day of a month then rent shall be prorated on a daily basis to the first day of the next month thereafter and Lessee shall pay Lessor upon ///

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said possession said pro rata rent together with the next month's rent.

The parties hereto have executed this Lease at the place and on the dates specified immediately adjacent to their respective signatures.

Executed at LESFONGILES	LESSOR:
on March RC, 1987. Name and Address for service of notices and payment of rent:	By: Dondon M. Wagner GORDON N. WAGNER
	By: JOSEPH W. BASINGER
Executed at Burbank, Cali- fornia on March, 1987. Address: 2721 Empire Avenue	HAWKER PACIFIC, INC., LESSEE
Burbank, CA 91504-3212	By:
	By:

3.ly 5

March

19 87

BUSINESS PROPERTY LEASE

THIS AGREEMENT, made in duplicate this 23 day of by and between

INDUSTRIAL BOWLING CORP., a California Corporation, hereinafter referred to as "LESSOR"

and

HAWKER PACIFIC, INC. hereinafter referred to as "LESSEE"

WITNESSETH:

1. That the Lessor, in consideration of the sum of -----TEN-----

Dollars (\$ 10.00) to him in hand paid by the Lessee, the receipt of which is hereby acknowledged, hereby and upon the following terms and conditions, leases to the Lessee, and the Lessee hereby hires and takes from the Lessor, those certain premises in the City of Los Angeles , County of Los Angeles, State of California, more particularly described as follows: That portion of the Most 1/2 of the East 1/2 (measured to contur linus of adjoining structs)of Lots u2 of the Laboration Banch Land a Batur co. Subdivision in the City of Los Anceles, county of Los et sog of Angulas, Statu of Callfornia, as pur map raconded in Dk.كا,pages كا et sog of Aisc. rescords in the office of county Recorder of said county, described as follows: beginning at a point on the westerly line of sold the half blo, do feet southerly of the intersection of the westerly line of said west one half with the southerly line of Sherman Way (formerly 9th St.) 50.00 feet wide as shown on said map, thence northerly along the westerly line of said west one half a distance of 3501; thence easterly parallel with the mortherty line of said lot, a distance of 110.00 feet, thence southerly perulial

(*) parallel with the northerly line of said lot a distance of 110.00 feet

to the point of beginning. Together with an easement for ingrees and egress over
the northerly 289' of the easterly 30' of the westerly 110' of said one half.

of see below

Dollars (\$), for the full term aforesaid, payable in installments of: \$3,900.00 per month 4/1/87 through 7/31/87 \$4,000.00 per month 8/1/87 through 9/30/89 *SEE ADDENDUM--RENT ESCALATIONS

Said payments shall be made in lawful money of the United States in advance, on the first day of each calendar month during said term, to Lessor or his agent, at such place in the County of Los Angeles as may be designated by the Lessor.

The first monthly of this lesse.

installment shall be paid on the signing

4. In addition to the rent hereinbefore reserved, the Lessee shall pay before delinquency all charges for water, gas, heat, electricity, power, refrigeration and any and all other services which may be used in or upon demised premises during the term of this lease, whether the same be charged or assessed at flat rates, measured by separate meters or pro rated. Should any such charge be payable by Lessee to Lessor and, after becoming due and payable, be and remain unpaid for five (5) days after presentation of bill therefore by Lessor to Lessee, the Lessor, in addition to any other remedy, at his option, may cause the discontinuance of such service to demised premises until such charge is fully paid and Lessor shall not be liable in any way for such discontinuance or any damage arising therefrom.

5. The Lessee agrees to use the premises for the purpose of storage and or any lawful manufacturing purpose permitted in a M-2 zone in the City of Los Angeles.

together with such other uses as may be incidental thereto and for no other purpose without the written consent of the Lessor. The Lessee shall not use the premises nor permit the same to be used for any unlawful purpose and at all times shall maintain the same in a sanitary and orderly condition, and conform to all laws and ordinances, and all regulations of any governmental body appertaining and shall not do or permit any act or omission which will void or suspend any insurance policy covering the premises, nor do anything which will cause any increase in the fire hazard in said premises or the building of which same may be a part, without the written consent of the Lessor first had and obtained and in the event of any consent by Lessor, express or implied, all increase in insurance premiums by reason thereof shall be paid by the Lessee. No auctions, nuisances, nor anything which will be an unreasonable annoyance to adjoining tenants or which will injure the reputation of the premises shall be done or permitted. This lease and the leasehold estate created hereby are, and shall be subject and subordinate to any encumbrances, or extensions thereof, now covering the demised premises, or any part thereof, or encumbrances hereafter placed on the demised premises. Lessce shall execute any further instrument required by Lessor subordinating this lease to such encumbrances.

- 6. Should the Lessor in good faith be unable to deliver possession of demised premises at the time herein specified for the commencement of said term, this lease shall not be void or voidable and Lessor shall not be liable in damages to Lessee, but Lessor shall use due diligence to deliver said premises as soon as possible thereafter and in such event Lessee shall have no right of cancellation herein unless said premises are not so delivered within a reasonable time. Lessee shall be entitled to an appropriate credit on the rent reserved hereunder for such period as delivery cannot be made.
- 7. The Lessee covenants that his taking possession of the herein demised premises shall be an acceptance of the safety and condition thereof; that no representations not herein stated regarding the leased premises, have been made by Lessor or any other person in his behalf. Lessee, as a material part of the consideration to be rendered to the Lessor, hereby waives all claims against Lessor for damage to, or loss of, property in, upon or about said premises and for injuries to persons in or about said premises from any cause arising at any time, and Lessee agrees to hold and save Lessor harmless and indemnified from all loss, damage, liability, expense or injury to any person or to the property of any person arising from the neglect or use of the premises by Lessee or any third person. Any and all elevators or other equipment in or about the premises shall be operated solely at Lessee's risk, except such as are operated entirely by Lessor.
- 8. The Lessee at his cost shall keep every part of the premises, its equipment and appurtenances, including all exterior glass, in the same good condition or repair as they now are or may later be put by the Lessor, except as otherwise provided herein, ordinary use excepted. The Lessor shall not be called upon to make any repairs, alterations, improvements or additions in, to or about the premises, except as otherwise provided herein, and should lessee fail to keep said premises properly repaired, Lessor may do so (but is not so obligated), and the cost of such repairs shall be paid by the Lessee with the next installment of and the same as rent due hereunder. The Lessee shall not place or maintain any sign, emblem, or other advertising matter of any kind on the exterior walls, grounds or roof or in or upon the windows or doors of the premises, without the written consent of the Lessor, and Lessor may remove any such sign which is maintained without such consent. The Lessee shall not make any change, alteration, or addition in or to the premises without the written consent of the Lessor first obtained, but this shall not prevent Lessee from installing trade fixtures and temporary office partitions, providing the same comply with all laws, ordinances and regulations applicable thereto, and the same may be removed at any time before the end of this lease, if the premises shall not be injured by such removal or provided that Lessee repairs any such injury; except, however, that any linoleum or other floor covering that has been glued to the floor shall be, and remain a part of the demised premises and shall not be removed at any time without the written consent of the Lessor. The Lessee agrees to save the Lessor harmless from and against all expenses, liens, claims, or damages to either property or person which may or might arise by reason of the making of any repairs, alterations, additions or improvements to the demised

premises, and further agrees to promptly remove any liens which may be filed or imposed against the demised premises. The Lessee on demand shall pay any increase in taxes paid by Lessor by reason of the assessment as improvements of additions and alterations made by Lessee and removable by him. The Lessee shall neither install nor maintain any machinery or apparatus, the weight or operation of which will tend to injure or be detrimental to the premises.

- 9. The Lessee shall not assign nor hypothecate this lease or the leasehold estate created hereby, nor sublet the whole or any part of the demised premises, without the written consent of the Lessor first had or obtained, and any attempt so to do shall be void and confer no rights on any third party, and shall be cause for cancellation of this lease by the Lessor at his option, and this provision against assignment, hypothecation and subletting shall be deemed to be a continuing covenant and apply not only to the Lessee herein, but to any and all sub-tenants, assignees and mortgagees of said leasehold premises or estate and to anyone who may in any manner acquire any interest therein. This lease shall not be assignable by operation of law. Should the Lessee abandon the premises or should any other person remain in possession thereof for five (5) consecutive days by virtue of any attachment or execution or through any bankruptcy or insolvency proceeding, or assignment for the benefit of creditors; or should Lessee default in any of his covenants or violate any of the provisions hereof, the Lesgor at his option may re-enter and take possession of the premises and remove all persons and property therefrom and at his option terminate this lease, with or without due process of law, such process being expressly waived by Lessee. In the event that Lessor elects to re-enter and take possession of said premises but not to terminate this lease, Lessee agrees to pay Lessor on demand, the cost of recovering possession of said premises and cost of reletting, including the usual commissions, and also to pay monthly, on demand, any deficiency in the rent. It is agreed by the Lessor and the Lessee that if this lease shall be terminated by the Lessor by reason of any breach thereof by the Lessee, the Lessor shall thereupon be entitled to recover from the Lessee the worth at the time of such termination, of the excess, if any, of the amount of rent and charges equivalent to rent reserved in this lease for the balance of the term as provided in Paragraph 2 hereof, over the then reasonable rental value of the premises for the same period. The several rights and remedies herein granted to the Lessor shall be cumulative and in addition to any others he may be entitled to by law, and the exercise of one or more rights or remedies shall not impair Lessor's right to exercise any other right or remedy; and the Lessee hereby waives all claims for domages that may be caused by the action of Lessor under the provisions of this paragraph, and all claims for damages to, or loss of, property belonging to Lessee, or any other person, firm or corporation that may be in or upon the premises at the time.
 - 10. Lessee shall pay all real and personal property taxes levied against the demised premises.

payment of all monies provided hereunder to be paid by the Lessee, and for the

^{11.} Lessee shall at all times during the term of this lease maintain and carry at Lessee's own cost and expense, liability insurance in insurance companies satisfactory to Lessor insuring the Lessee, the Lessor and the demised premises against damages or injuries to persons or property with limits of not less than \$500,000.00 for damage or injury to any one person and\$1,000,000.00 for damages or injuries to more than one person and for property damage in an amount not less than \$25,000.00 Lessee shall deposit copies of such insurance policies with Lessor upon request of Lessor. Lessee also to provide fire & extended coverage in the amount of \$300,000.00 and name Industrial Bowling Corp. as additional insured.

12. As security for the payment of the rent hereunder provided and for the

on the part of the Lesses to be kept and performed, the Lesses has, upon the execution of this lease, deposited with the Lessor the sum of \$1,950.00 receipt of which is hereby acknowledged by the Lessor, which said sum Lessor shall hold as security without payment of interest thereon to Lesses. Upon the expiration date of the term of this lease or of any extension thereof or any sooner termination thereof, as herein provided, and provided at such time the Lesses be not in dermit in any of the terms and provisions of this lease, Lessor shall return to the Lesses the aforesaid sum of \$1,950.00 , deposited by the Lesses as security

- 13. The Lessor reserves the right to enter the premises during reasonable business hours, for the purpose of inspection, exhibition, posting notices or supervising any necessary repeirs. The Lessor may maintain such notices on the premises as may be necessary to protect him against loss from mechanics! liens or otherwise. The Lessor shall have the right to after the said building, or add thereto, and for that purpose may erect scaffolding or other necessary or proper structures, and in such event Lessor shall not be liable to Lessee for any damage or inconvenience occasioned thereby; but any such work or afterations shall be made in such manner as to inconvenience said Lessee as little as possible.
- lh. In case Lessee holds over after the end of the term herein provided, with the express or implied consent of the Lessor, such tenancy shall be from month to month only, and not a renewal hereof, and the rent shall be at the rate of
- 15. At the expiration or other termination of said term or of any extension or hold-over period thereof, the Lessee shall quit and deliver up possession of the premises unto the Lessor, in as good condition as upon delivery of possession to the Lessee, ordinary use thereof and damage by any of the contingencies mentioned in Paragraph Sixteen (16) hereof excepted. Immediately upon vacating said premises the Lessee shall remove all rubbish therefrom, and upon his failure so to do, the Lessor may do so, and the Lessee shall pay to Lessor, upon demand, the reasonable expense thereof.
- 16. Should the premises be so badly damaged by fire, earthquake, incidents of war, or other sudden violent action of the clements, as to render them wholly unfit for Lessee's occupency and so that they cannot be restored with reasonable diligence working days after the commencement of actual work, then this lease may be terminated within the period of 30 by either party, upon written notice to the other, whereupon Lessee shall surrender days after such disaster. the premises and shall not be liable for any further rental, and Lessor shall refund any unearned rent paid in advance by Lessee, calculated at a daily rate, based on the regular monthly rental. Should this lease not be so terminated or in the event of any lesser damage by any such cause, the premises shall be restored with all reasonable speed by the Lessor at his expense, and the Lessee shall pay a reasonable rental during the period of such restoration for such part of the premises as shall be fit for occupancy by Lessee, and shall not be entitled to any damages for any loss occasioned by the injury to, or the destruction of said building or of Lessee's property; nor shall the rent be abated if Lessee is able to carry on his business as usual in the said premises.
- 17. Lessee will pay and indemnify Lessor against all legal costs and charges, including attorney's fees, reasonably incurred by Lessor in enforcing any covenant or agreement of this lease or in or about the defense or prosecution of any suit in discharging the said premises, or any part thereof, from any lien, judgment, or encumbrance caused or suffered by Lessee, or in any suit or proceeding against the Lessee in which the Lessor may be made a party by reason of being the owner of said demised premises. Whenever it shall be necessary for either party to give notice or present a bill to the other, respecting this lease, such notice or bill may be sent by registered mail, postage prepaid, addressed to the Lessor at:

1819 West Olive Avenue, Burbank, California 91506

or the Lessee at:

2921 Empire Avenue, Burbank, California

and such notice or presentation shall be deemed to be complete twenty-four hours after the same has been deposited in any United States Post Office, or mail box in the County of Los Angeles. This shall be a valid and sufficient service of notice for all purposes. The Lessor reserves the right for himself or his agents, during

the last thirty (30) days of Lessee's tenancy, to place and maintain in one or more conspicuous places in the lessed premises, "For Rent", "For Lease", or "For Sale" signs. If, at any time Lessor shall waive any covenant, condition or restriction of this lease, either before or after breach thereof, he shall not thereafter be deemed to have consented to any further breach of the same covenant, condition or to have waived subsequent compliance with any performance of such or any other covenant, condition, or restriction herein.

- 18. Where the term "Lessor" or "Lessee" is used herein, the same shall apply to the plural if necessary, and all terms used in the singular or in the masculine gender, shall apply to the plural, or to the feminine or neuter genders, where the context so requires.
- 19. Each and all of the terms and agreements herein contained, shall be binding upon and inure to the benefit of the successors in interest of the Lesnor, and wherever the context admits or requires, the successors in interest of the Lessee. Time is of the essence of this lease.

IN WITNESS WHEREOF, the parties hereto have executed this lease at Los Angeles, California, the day and year first above written.

IF 2204	INDUSTRIAL BOWLING CORP.
	John Stower
	BY: JOHN D. HOWARD, PRESIDENT
LESSEE	HAWKER PACIFIC, INC.
	8Y:



ADDENDUM TO STANDARD INDUSTRIAL LEASE

	DatedMar	rch 23, 1987	
	By and Betwee	en <u>INDUSTRIAL BOWLING (</u>	CORP.
	& HAWKER PAC	CIFIC, INC.	
REN	IT ESCALATIONS	•	
(a) On <u>Oct</u>	ober 1, 1989, April	1, 1992, October 1, 199	4
trom the date th U.S. Departmen	is Lease commenced, i nt of Labor for Urban	in the Consumer Price Index	shall be adjusted by the increase, if any, sof the Bureau of Labor Statistics of the all Workers, Los Angeles-Long Beach- "C.P.I."
follows: the ren- attached Lease, month during wi calendar month	t payable for the first r shall be multiplied by a nich the adjustment is to in which the original L	month of the term of this Lo a fraction the numerator of v to take effect, and the denom Lease term commences. The	of this Addendum shall be calculated as ease, as set forth in paragraph 4 of the which shall be the C.P.I. of the calendar inator of which shall be the C.P.I. for the sum so calculated shall constitute the fly rent be less than the rent payable for

the month immediately preceding the date for rent adjustment.

Initials:

- (c) Pending receipt of the required C.P.I. and determination of the actual adjustment, Lessee shall pay an estimated adjusted rental, as reasonably determined by Lessor by reference to the then available C.P.I. information. Upon notification of the actual adjustment after publication of the required C.P.I., any overpayment shall be credited against the next installment of rent due, and any underpayment shall be immediately due and payable by Lessee. Lessor's failure to request payment of an estimated or actual rent adjustment shall not constitute a waiver of the right to any adjustment provided for in the Lease or this addendum.
- (d) In the event the compilation and/or publication of the C.P.I. shall be transferred to any other governmental department or bureau or agency or shall be discontinued, then the index most nearly the same as the C.P.I. shall be used to make such calculation. In the event that Lessor and Lessee cannot agree on such alternative index, then the matter shall be submitted for decision to the American Arbitration Association in accordance with the then rules of said association and the decision of the arbitrators shall be binding upon the parties. The cost of said Arbitrators shall be paid equally by Lessor and Lessee.

Initiale: 45th

RENT ESCALATIONS

By American Industrial Real Estate Association. All rights reserved. No bart of these

BUSINESS PROPERTY LEASE

Blog 2)

THIS AGREEMENT, made in duplicate this 1st day of Augus by and between

1987

INDUSTRIAL BOWLING CORP., a California Corporation, hereinafter referred to as "LESSOR"

and

HAWKER PACIFIC, INC. hereinafter referred to as "LESSEE"

WITNESSETH!

1. That the Lessor, in consideration of the sum of -----TEN-----

Dollars (\$ 10.00) to him in hand paid by the Lessee, the receipt of which is hereby acknowledged, hereby and upon the following terms and conditions, leases to the Lessee, and the Lessee hereby hires and takes from the Lessor, those certain premises in the City of Los Angeles , County of Los Angeles, State of California, more particularly described as follows:

See Exhibit "B", Parcel 1

Commonly known as 11258 Sherman Way, Sun Valley, California

2. The term of this lease shall be Approx. Nine Years, Four Months

commencing on the 7th day of December 19 87 and ending on the 31st day of March 19 97.

3. The Lessee agrees to pay as rent for said demised premises, the total sum

of \$4,200 per mo. subject to the rent escalation addendum attached to the lease as Exhit "A" and made a part hereof.

Dollars (\$), for the full term aforesaid, payable in installments

of: \$4,200.00 per mo. *The 1st full month's rent covering the period Jan. 1 through

January 31, 1988 shall be paid on the signing of this lease. Lessee shall have a period rent-free occupancy commencing Dec. 7, 1987 and ending Dec. 21, 1987. Rent for the periodec. 22, 1987 through Dec. 31, 1987 in the amount of \$1,380.80 (calculated based on a pediem rent figure of \$138.08) shall be paid to Lessor in addition to the first full month rent as stated above.

Said payments shall be made in lawful money of the United States in advance, on the 1st day of each calendar month during said term, to Lessor or his agent, at such place in the County of Los Angeles as may be designated by the Lessor.

The first monthly* of this lease.

installment shall be paid on the signing

li. In addition to the rent hereinbefore reserved, the Lessee shall pay before delinquency all charges for water, gas, heat, electricity, power, refrigeration and any and all other services which may be used in or upon demised premises during the term of this lease, whether the same be charged or assessed at flat rates, measured by separate meters or pro rated. Should any such charge be payable by Lessee to Lessor and, after becoming due and payable, be and remain unpaid for five (5) days after presentation of bill therefore by Lessor to Lessee, the Lessor, in addition to any other remedy, at his option, may cause the discontinuance of such service to demised premises until such charge is fully paid and Lessor shall not be liable in any way for such discontinuance or any damage arising therefrom.

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5. The Lessee agrees to use the premises for the purpose of storage and/or any lawful manufacturing purpose permitted in a M-2 Zone in the City of Los Angeles.

together with such other uses as may be incidental thereto and for no other purpose without the written consent of the Lessor. The Lessee shall not use the premises nor permit the same to be used for any unlawful purpose and at all times shall maintain the same in a sanitary and orderly condition, and conform to all laws and ordinances, and all regulations of any governmental body appertaining and shall not do or permit any act or omission which will void or suspend any insurance policy covering the premises, nor do anything which will cause any increase in the fire hazard in said premises or the building of which same may be a part, without the written consent of the Lessor first had and obtained and in the event of any consent by Lessor, express or implied, all increase in insurance premiums by reason thereof shall be paid by the Lessee. No auctions, nuisances, nor anything which will be an unreasonable annoyance to adjoining tenants or which will injure the reputation of the premises shall be done or permitted. This lease and the leasehold estate created hereby are, and shall be subject and subordinate to any encumbrances, or extensions thereof, now covering the demised premises, or any part thereof, or encumbrances hereafter placed on the demised premises. Lessoc shall execute any further instrument required by Lessor subordinating this lesse to such encumbrances.

- 6. Should the Lessor in good faith be unable to deliver possession of demised premises at the time herein specified for the commencement of said term, this lesse shall not be void or voidable and Lessor shall not be liable in damages to Lessee, but Lessor shall use due diligence to deliver said premises as soon as possible thereafter and in such event Lessee shall have no right of cancellation herein unless said premises are not so delivered within a reasonable time. Lessee shall be entitled to an appropriate credit on the rent reserved hereunder for such period as delivery cannot be made.
- 7. The Lessee covenants that his taking possession of the herein demised premises shall be an acceptance of the safety and condition thereof; that no representations not herein stated regarding the lessed premises, have been made by Lessor or any other person in his behalf. Lessee, as a material part of the consideration to be rendered to the Lessor, hereby waives all claims against Lessor for damage to, or loss of, property in, upon or about said premises and for injuries to persons in or about said premises from any cause arising at any time, and Lessee agrees to hold and save Lessor harmless and indemnified from all loss, damage, liability, expense or injury to any person or to the property of any person arising from the neglect or use of the premises by Lessee or any third person, any and all elevators or other equipment in or about the premises shall be operated solely at Lessee's risk, except such as are operated entirely by Lessor.
- 8. The Lessee at his cost shall keep every part of the premises, its equipment and appurtenances, including all exterior glass, in the same good condition or repair as they now are or may later be put by the Lessor, except as otherwise provided herein, ordinary use excepted. The Lessor shall not be called upon to make any repairs, elterations, improvements or additions in, to or about the premises, except as otherwise provided herein, and should Lessee fall to keep said premises properly repaired, Lessor may do so (but is not so obligated), and the cost of such repairs shall be paid by the Lessee with the next installment of and the same as rent due hereunder. The Lessee shall not place or maintain any sign, emblem, or other advertising matter of any kind on the exterior walls, grounds or roof or in or upon the windows or doors of the premises, without the written consent of the Lessor, and Lessor may remove any such sign which is maintained without such consent. The Lessee shall not make any change, alteration, or addition in or to the premises without the written consent of the Lessor first obtained, but this shall not prevent Lessee from installing trade fixtures and temporary office partitions, providing the same comply with all laws, ordinances and regulations applicable thereto, and the same may be removed at any time before the end of this lease, if the premises shall not be injured by such removal or provided that Lessee repairs any such injury; except, however, that any linoleum or other floor covering that has been glued to the floor shall be, and remain a part of the demised premises and shall not be removed at any time without the written consent of the Lessor. The Lessee agrees to save the Lessor harmless from and against all expenses, liens, claims, or damages to either property or person which may or might arise by reason of the making of any repairs, alterations, additions or improvements to the demised

premises, and further agrees to promptly avec any liens which may be filed or imposed against the demised premises. The Lessee on demand shall pay any increase in taxes paid by Lessor by reason of the assessment as improvements of additions and alterations made by Lessee and removable by him. The Lessee shall neither install nor maintain any machinery or apparatus, the weight or operation of which will tend to injure or be detrimental to the premises.

- 9. The Lessee shall not assign nor hypothecate this lease or the leasehold estate created hereby, nor sublet the whole or any part of the demised premises, without the written consent of the Lessor first had or obtained, and any attempt so to do shall be void and confer no rights on any third party, and shall be cause for cancellation of this lease by the Lessor at his option, and this provision against assignment, hypothecation and subletting shall be deemed to be a continuing covenant and apply not only to the Lessee herein, but to any and all sub-tenants, assigness and mortgagees of said leasehold premises or estate and to anyone who may in any manner acquire any interest therein. This lease shall not be assignable by operation of law. Should the Lessee abandon the premises or should any other person remain in possession thereof for five (5) consecutive days by virtue of any attachment or execution or through any bankruptcy or insolvency proceeding, or assignment for the benefit of creditors; or should Lessce default in any of his covenants or violate any of the provisions hereof, the Lesuor at his option may re-enter and take possession of the premises and remove all persons and property therefrom and at his option terminate this lease, with or without due process of law, such process being expressly valved by Lessee. In the event that Lessor elects to re-enter and take possession of said premises but not to terminate this lease, Lessee agrees to pay Lessor on demand, the cost of recovering possession of said premises and cost of reletting, including the usual commissions, and also to pay monthly, on demend, any deficiency in the rent. It is agreed by the Lessor and the Lessee that if this lease shall be terminated by the Lessor by reason of any breach thereof by the Lessee, the Lessor shall thereupon be entitled to recover from the Lessee the worth at the time of such termination, of the excess, if any, of the amount of rent and charges equivalent to rent reserved in this lease for the balance of the term as provided in Paragraph 2 hereof, over the then reasonable rental value of the premises for the same period. The several rights and remedies herein granted to the Lessor shall be cumulative and in addition to any others he may be entitled to by law, and the exercise of one or more rights or remedies shall not impair Lesson's right to exercise any other right or remedy; and the Lesses hereby waives all claims for domages that may be caused by the action of Lessor under the provisions of this paragraph, and all claims for damages to, or loss of, property belonging to lesses, or any other person, firm or corporation that may be in or upon the premises at the time.
 - Lessee shall pay all real and personal property taxes levied against demised premises.

\$300,000.00 and name Industrial Bowling Corp. as additional insured.

12. As security for the payment of the rent hereunder provided and for the payment of all monies provided hereunder to be paid by the Lessee, and for the faithful performance of all of the terms, covenants and conditions of this lesse

^{11.} Lessee shall at all times during the term of this lease maintain and carry at Lessee's own cost and expense, liability insurance in insurance companies satisfactory to Lessor insuring the Lessee, the Lessor and the demised premises against damages or injuries to persons or property with limits of not less than \$500,000.00 for damage or injury to any one person and \$1,000,000.00 for damages or injuries to more than one person and for property damage in an amount not less than \$25,000.00 Lessee shell deposit copies of such insurance policies with Lessor upon request of Lessor. Lessee also to provide fire & extended coverage in the amount of \$300,000.00 and name industrial Bowling Corp. as additional insured

on the part of the Lessee to be kept and performed, the Lessee has, upon the execution of this lease, deposited with the Lessor the sum of \$4,200.00 receipt of which is hereby acknowledged by the Lessor, which said sum Lessor shall hold as security without payment of interest thereon to Lessee. Upon the expiration date of the term of this lease or of any extension thereof or any sooner termination thereof, as herein provided, and provided at such time the Lessee be not in default in any of the terms and provisions of this lease, Lessor shall return to the Lesses the aforesaid sum of \$4,200.00 , deposited by the Lessee as security hereunder.

- 13. The Lessor reserves the right to enter the premises during reasonable business hours, for the purpose of inspection, exhibition, posting notices or supervising any necessary repairs. The Lessor may maintain such notices on the premises as may be necessary to protect him against loss from mechanics! liens or otherwise. The Lessor shall have the right to alter the said building, or add thereto, and for that purpose may erect scaffolding or other necessary or proper structures, and in such event Lessor shall not be limble to Lessee for any damage or inconvenience occasioned thereby; but any such work or alterations shall be made in such manner as to inconvenience said Lessee as little as possible.
- ili. In case Lessee holds over after the end of the term herein provided, with the express or implied consent of the Lessor, such tenancy sholl be from month to month only, and not a renewal hereof, and the rent shall be at the rate of
- 15. At the expiration or other termination of said term or of any extension or hold-over period thereof, the Lessee shall quit and deliver up possession of the premises unto the Lessor, in as good condition as upon delivery of possession to the Lessee, ordinary use thereof and damage by any of the contingencies mentioned in Paragraph Sixteen (16) hereof excepted. Immediately upon vacating said premises the Lessee shall remove all rubbish therefrom, and upon his failure so to do, the expense thereof.
- 16. Should the premises be so badly damaged by fire, earthquake, incidents of war, or other sudden violent action of the clements, as to render them wholly unfit for Lessee's occupancy and so that they cannot be restored with reasonable diligence 90 working days after the commencement of actual work, then this lease may be terminated within the period of 30 days after such disaster, by either party, upon written notice to the other, whereupon Lessee shall surrender the premises and shall not be liable for any further rental, and Lessor shall refund any unearned rent paid in advance by lessee, calculated at a daily rate, based on the regular monthly rental. Should this lease not be so terminated or in the event of any lesser damage by any such cause, the premises shall be restored with all reasonable speed by the Lessor at his expense, and the Lessee shall pay a reasonable rental during the period of such restoration for such part of the premises as shall be fit for occupancy by Lessee, and shall not be entitled to any damages for any loss occasioned by the injury to, or the destruction of said building or of Lessee's property; nor shall the rent be abated if Lessee is able to carry on his business as usual in the said premises.
- 17. Lessee will pay and indemnify Lessor against all legal costs and charges, including attorney's fees, reasonably incurred by Lessor in enforcing any covenant or agreement of this lease or in or about the defense or prosecution of any suit in discharging the said premises, or any part thereof, from any lien, judgment, or encumbrance caused or suffered by Lesses, or in any suit or proceeding against the Lessee in which the Lessor may be made a party by reason of being the owner of said demised premises. Whenever it shall be necessary for either party to give notice or present a bill to the other, respecting this lease, such notice or bill may be sent by registered mail, postage prepaid, addressed to the Lessor ats

1819 W. Olive Avenue, Burbank, California 91506

or the Lessee sti

2921 Empire Ave, Burbank, California

and such notice or presentation shall be deemed to be complete twenty-four hours after the same has been deposited in any United States Post Office, or mail box in the County of Los Angeles. This shall be a valid and sufficient service of notice for all purposes. The Lessor reserves the right for himself or his agents, during

Exhibit "A" .

inibals:



By and Between __INDUSTRIAL BOWLING CORP.

Dated August 1, 1987

& HAWKER PACIFIC, INC.
(a) OnOctober 1, 1989; April 1, 1992; October 1, 1994
the monthly rent payable under paragraph 4 of the attached Lease shall be adjusted by the increase, if any from the date this Lease commenced, in the Consumer Price Index of the Bureau of Labor Statistics of the U.S. Department of Labor for Urban Wage Earners and Clerical Workers, Los Angeles-Long Beach Anaheim, California (1967=100), "All Items", herein referred to as "C.P.I."
(b) The monthly rent payable in accordance with paragraph (a) of this Addendum shall be calculated at follows: the rent payable for the first month of the turn of this Lease, as set torth in paragraph 4 of the attached Lease, shall be multiplied by a fraction the numerator of which shall be the C.P.I. of the calenda month during which the adjustment is to take effect, and the denominator of which shall be the C.P.I. for the calendar month in which the original Lease term commences. The sum so calculated shall constitute the new monthly rent hereunder, but in no event, shalf such new monthly rent be less than the rent payable fo the month immediately preceding the date for rent adjustment.
(c) Pending receipt of the required C.P.I. and determination of the actual adjustment, Lessee shall pay ar estimated adjusted rental, as reasonably determined by Lessor by reference to the then available C.P.i. information. Upon notification of the actual adjustment after publication of the required C.P.I., any overpayment shall be credited against the next installment of rent due, and any underpayment shall be immediately due and payable by Lessee. Lessor's failure to request payment of an estimated or actual renadjustment shall not constitute a waiver of the right to any adjustment provided for in the Lease or this addendum.
(d) In the event the compilation and/or publication of the C.P.I. shall be transferred to any other governmental department or bureau or agency or shall be discontinued, then the index most nearly the same as the C.P.I. shall be used to make such calculation. In the event that Lessor and Lessee cannot agree on such alternative index, then the matter shall be submitted for decision to the American Arbitration Association in accordance with the then rules of said association and the decision of the arbitrators shall be binding upon the parties. The cost of said Arbitrators shall be paid equally by Lessor and Lessee.

initials: July put

to the center line of the Mest o lif of the Bast one-half (measure to the center line of the adjoining etreets) of Lot 62 of the Langer shim Reneh Land and Weter 00. Subdivision in the City of Los Angeles Lounty of Los Angeles, State of California as per map recorded in Book 31 pages 80 at Meg., of Miscellaneous Records, in the office of the County Recorder of and County, lying northerly of a line parallel with and distant Mortherly 50 feet from a line bearing Bouth 80° 04° 85° East from a point in the center line of Tujunga Avenue, 60 feet wide, distant thereon North 0° 00° 50° West 406.44 feet from the intersection of said center line with the Westerly prolongation of the South line of said lot 68°.

Except the following described percel:

Beginning at the Southeasterly corner of the above described parcel, themse Worth 89° 04: 25° West 130.10 feet, themse Northerly parallel with the East line of the West half of the East half of said Lot 68, 160.00 feet, themse North 89° 04: 25° West 89.90 feet to the Westerly line of the Easterly 220.00 feet of the West one-half of said Lot 62, themse North along said last mentioned Westerly line 93.19 feet to the South line of the Wortherly 619 feat of said Lot 62, themse Westerly glong said last mentioned South line 110.00 feet to the West line of the East one-half of said Lot 62, themse Westerly glong said last mentioned west line, 619.00 feet to the North line of Lot 62, themse Easterly along the Mortherly line of Lot 62, thense Easterly along the Mortherly line of Lot 62, thense Easterly along the Mortherly line of Lot 63 to the East line of the West one-half of the East one-half of the East one-half of the East line of the West one-half of the East one-half of Lot 63, thense Southerly along said last

mentioned East line 875.80 feet to the point of beginning of this description.

PARCEL B

An essent for driveway purposes over the West 20.00 feet of the Mast 240.00 feet of the North 619.00 feet of the West one-half of the East one-half of said Lot 62

(187 LEES

the last thirty (30) days of Lessee's tenancy, to place and maintain in one or more conspicuous places in the lessed premises, "For Rent", "For Lesse", or "For Sale" signs. If, at any time Lessor shall waive any covenant, condition or restriction of this lesse, either before or after breach thereof, he shall not thereafter be deemed to have consented to any further breach of the same covenant, condition or to have waived subsequent compliance with any performance of such or any other covenant, condition, or restriction herein.

18. Where the term "Lessor" or "Lessee" is used herein, the same shall apply to the plural if necessary, and all terms used in the singular or in the masculine gender, shall apply to the plural, or to the feminine or neuter genders, where the context so requires.

19. Each and all of the terms and agreements herein contained, shall be binding upon and inure to the benefit of the successors in interest of the Lesnor, and wherever the context admits or requires, the successors in interest of the Lessee. Time is of the essence of this lease.

IN WITNESS WHERECF, the parties hereto have executed this lease at Los Angeles, California, the day and year first above written.

LESSOR_	INDUSTRIAL BOWLING CORP.
-	BY JOHN D. HOWARD, PRESIDENT
LESSEE_	HAWKER PACIFIC, INC.
·	Danslant Secretary
STATE OF CALIFORNIA)) SS. COUNTY OF LOS ANGELES)	and the second of the second o
On DEC 17, 1987, before me, the undersand for said State personally appeared known to me to be the PRESIDENT executed the within instrument, known to me to the within Instrument, on behalf of the Corporacknowledged to me that such Corporation executed	SCHN D. HowARD, of the Corporation that be the person who executed ration, therein named, and
WITNESS my hand and official seal.	M. Holmen blic in and for said State
STATE OF CALIFORNIA)) SS. COUNTY OF LOS ANGELES) On 1987, before me, the unders	igned, a Notary Public in
and for said State personally appeared ANN known to me to be the MANT SCRETAR executed the within instrument, known to me to be	GUAS M. NETSTAT. Of the Corporation that

the within Instrument, on behalf of the Corporation, therein named, and

acknowledged to me that such Corporation executed the same.

WITNESS my hand and official seal.

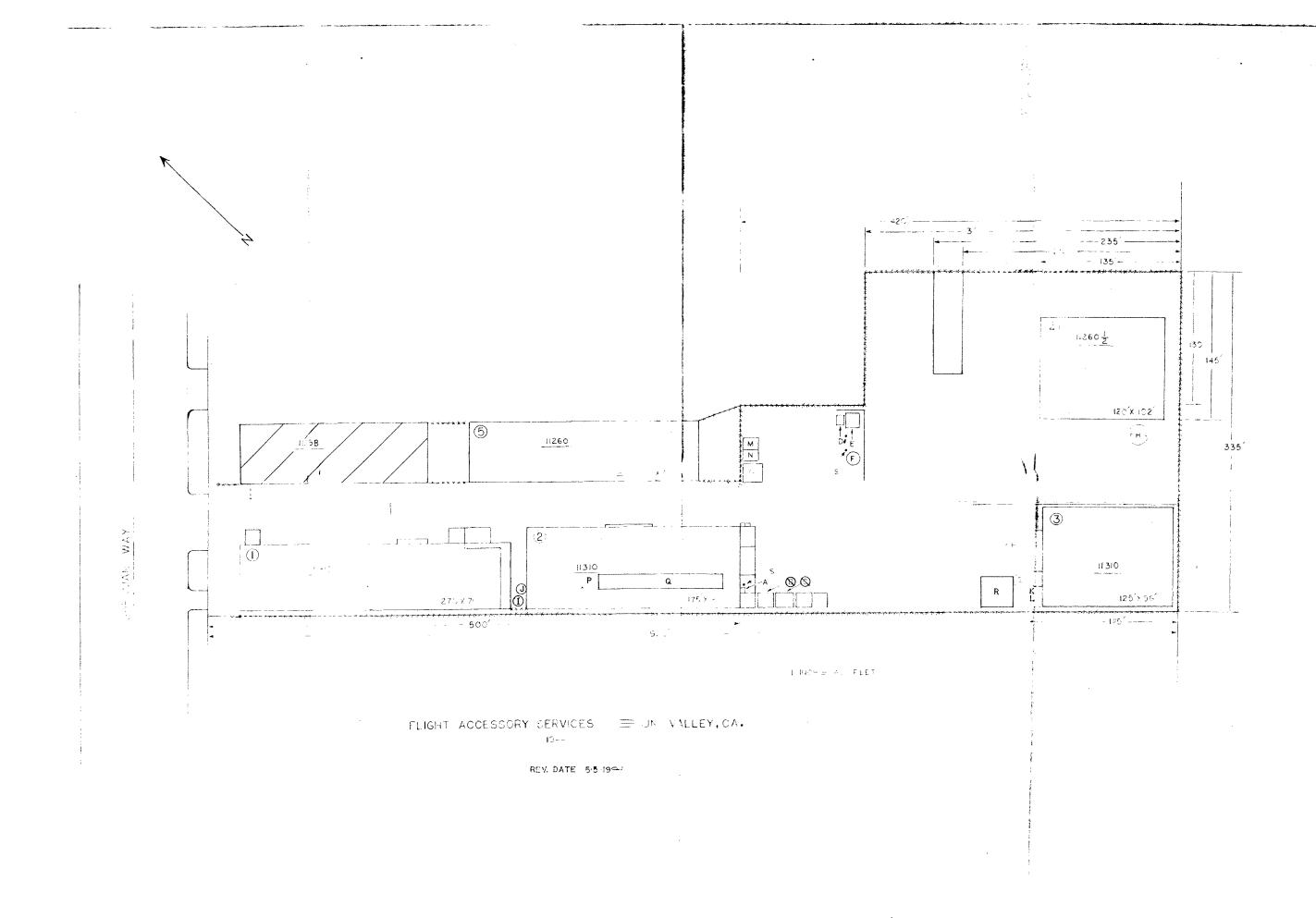
REBECCA SANDRA WARD
NOTARY PUBLIC - CALIFORMA
LOS ANGELES COUNTY
My Comm Expres June 2, 1089

Rebuca Sandra Wash Notary Public in and for said State

g,

FACILITY FEATURES SHOWN ON MAP

- A. 1,1,1 Trichloroethane Storage Tank
- B. Former chemical storage shed (now removed)
- C. Former chemical storage shed (now removed)
- D. Waste Oil and Water Storage Tank
- E. Flammable liquid storage shed for new products (solvents, thinners, kerosene), metal, resting on concrete slab within berm; 14'x14'; next to waste oil and water tank (D)
- F. Hazardous Waste Staging Area [in same area as D and E], on paved area sloping down into block wall "L"
- G. Cooling Tower
- H. Septic Tanks; concrete, one connected to restroom in Building 4 and one to Building 3, with leach lines
- I. Underground storage tank, not connected by piping to anything else
- J. Sump, concrete, 1'x1'x3'
- K & L. 2 sumps [see Response to First EPA Request, description at answer 2]
- M & N. 2 chemical storage sheds, metal, each 14'x14', both on one concrete slab, with berm around each shed
- O. Flammable liquid storage area, 20'x20' bermed area for lubricating oils, on concrete slab with surrounding 10' high chain link fence
- P. Building 2 clarifier, consisting of 5 connected compartments 4x5x5 feet deep; not in use; in floor, extending 2-4 feet below grade
- Q. Building 2 plating tank containment pit, concrete, 13' wide x 75' long x 7-8' deep; 4-5' below grade; draining into sump in NW corner which is pumped out whenever liquids collect
- R. Hydraulic Test Stand Housing, 40' x 30' stucco, 2 room building on concrete slab (only plumbing is water line in)





January 4, 1989

3420 N. SAN FERNANDO BLVD. SUITE 200 BURBANK, CALIFORNIA 91504 818-848-0214 PANAFAX 818-848-1674

Hawker Pacific, Inc. 11310 Sherman Way Sun Valley, California 91352

Project No. 58-8601 RWQCB File No. AB104.0436

Attention: Mr. Erik Johnson

Hazardous Waste Engineer

Gentlemen:

REPORT

Subsurface Investigation AB-1803 Follow-up Program

11310 Sherman Way

Sun Valley, California

INTRODUCTION

Law Environmental, Inc. is pleased to submit this report of subsurface investigation at the above-referenced property. The investigation was requested by the Regional Water Quality Control Board (RWQCB) in their September 6, 1988 letter to Mr. Erik Johnson (Appendix A). This report addresses all elements of the required investigation which concern subsurface investigation and associated laboratory analysis (Items 2 and 4a). Other requirements of the September 6, 1988 letter are/will be addressed in documents provided to the RWQCB by Hawker Pacific.

Our professional services have been performed using that degree of care and skill customarily exercised under similar



circumstances by reputable consulting engineers and geologists practicing in this or equivalent localities. No other warranty, expressed or implied, is made as to the information or professional advice included in this report. This report has been prepared expressly for Hawker Pacific, Inc. to be used solely for the purposes of the required RWQCB AB-1803 investigation. The report has not been prepared for use by other parties and may not contain sufficient information for other parties or other uses.

All findings and conclusions derived from measurements or analyses of soil, water, air and/or gas are based on the conditions which existed only at those particular sample locations and the times of sampling. The analytical results reflect the range of accuracy and detection levels, when specified, for the particular analytical equipment and/or specific analytical method(s) used.

FIELD INVESTIGATION

METHODS

Our field investigation was conducted on December 1, 1988. Three soil borings were completed to a depth of 10 feet at the locations indicated on Plate 1, Site Map. Boring B-1 was drilled



approximately one foot from the berm surrounding the TCA tank at the rear of Building 2. Boring B-2 was drilled approximately two feet from the berm surrounding the waste oil tank. Boring B-3 was drilled within the drum storage area.

All borings were drilled using a truck-mounted hollow-stem auger with an outer diameter of eight inches. Undisturbed samples were collected and preserved in accordance with the Soil Sampling Protocol in Appendix B. Samples from each boring were monitored in the field for the presence of volatile organic compounds using a Foxboro OVA 108GC (OVA). This unit is calibrated to a methane standard and provides a direct readout with a sensitivity of about one part per million (ppm) for most fuel hydrocarbons and organic solvents. Nine soil samples (three from each boring) were transported to Brown and Caldwell Laboratories in Pasadena for analysis.

GEOLOGY

Up to one foot of fill soils consisting of silty sand to sandy silt were encountered in our borings. The fill was underlain by recent alluvium consisting of a light brown, medium to coarse-grained sand with a trace of silt. This sand persisted to the bottom of our borings. Details of the geology are shown on the boring logs included as Appendix C.



Previous work in this vicinity indicates that deeper materials at this location are generally characterized by coarse sands and gravels. Los Angeles County Flood Control District data suggest that the depth to ground water at this location is in excess of 150 feet.

OBSERVATIONS

Ground water was not encountered in any of our borings. No visual or olfactory evidence of soil contamination was observed. No OVA readings were obtained from the borings which were in excess of background values.

ANALYTICAL RESULTS

In accordance with RWQCB requirements, all analyses were performed by a State and EPA-certified laboratory. The laboratory report and associated chain-of-custody documents are included in Appendix D. Samples from depths of 1, 5 and 10 feet in each boring were analyzed discretely for volatile organic compounds by EPA Method 8240.

Only one compound, methylene chloride, was detected in the soil samples. A fairly uniform concentration, 5 to 16 parts per



billion (ppb), was identified in all 9 samples. Methylene chloride is a commonly used solvent in the laboratory. Brown and Caldwell Laboratories has determined that the reported methylene chloride concentrations are due to laboratory contamination. This is stated in the letter from Brown and Caldwell which follows the laboratory report. Even so, the levels detected are well below the Drinking Water Action Level of 40 ppb recommended by the State of California Department of Health Services (January 1987).

CONCLUSIONS

Our investigation has not detected the presence of volatile organic compounds within the investigated areas of the subject property. The low levels of methylene chloride detected by the laboratory are believed to be the result of laboratory contamination.

-000-

One copy of this report should be submitted to the RWQCB by January 6, 1989. This extension was granted by Ms. Mila Sylvestre at the request of Law Environmental on December 21, 1988.



It has been a pleasure to have been of service to you on this project. If you have any questions regarding this report, please contact the undersigned.

Yours very truly,

LAW ENVIRONMENTAL, INC.

by Warre W. Dwas Warren W. Gross Staff Hydrogeologist

Jack Carmody, Manager Environmental Assessment

Glenn A. Brown, C.E.G. 3 Senior Vice President

WG/gla/8601.RPT Attachments

(3 copies submitted)

BASE MAP BY HAWKER PACIFIC NO SCALE PROVIDED

> MAP SITE

PLATE 1

LAW ENVIRONMENTAL, INC.

BORING LOCATION

B-1

AND NUMBER



BORING LOG

OWNER	На	س	iker	Pac	ific PROJECT No. 58-8601
					n Way, Sun Valley BORING No. B-1
DRILLED					,
					tem Auger DATE 12-1-88
BOREHOLE					
,	/ /		,	//	
	1		imm		3" Asphaltic Pavine
				SM	FILL - SILTY SAND/SANDY SILT - fine-grained, some clay,
			·-:	ML	slightly plastic, damp, medium brown.
2		7.		SP	save made to compare time of silt day
					SAND-medium to coarse grained trace of silt, dry to damp, white to light brown
3 —			–		
4 -					
5 -		3	. – .		
6 -			. • •		
7 -			• • -		
8 -					
			<u> </u>		
9 -					
			· -		
0 7		5			
1 -					
2					
3 -	•				
4 -					
5					
6					
7 -					
8 -					Remarks:
					End boring at ten feet. Ground Water not
9 -					encountered. No Caving. No unusual adors or soil discoloration.
	interval	-			UP SOTI ADEGIONATION.
0 -	sampled	4]interval		



BORING LOG

OWNER	Ho	wker	Pac	ific	PROJECT No. 58-860/
LOCAT	ION//	310 She	rma	n Way Sun Valley	BORING No. 8-2
	ED BY			• •	PAGE/_ of/
					DATE /2 -/-88
	/ /		//	BOREHOLE DIA. 8 inches	LOGGED BY MM
2030	10 8 8 9 10 8 9	The state of the s	5	DESCRIPTION OF MA	ATERIALS
		333333	SM	2" Asphaltic Paying	
1 -			╀	FILL-SILTY SAND - VERY FIRE .	grained, trace clay, damp,
		<u> </u>	SP		
2 -			-	to domp, white to	rained, trace silt, dry
3 -			-	To domp, white to	light brown.
4					
		-	-		
5 —		3			
6 -			-		
7 -		•			
'					
8 -		- :			
9 -					
		H ::			
0 -		T			
1 -	1		_		
2 -					
3 -	•				
4 -					
			-		
5 —					
6 —					
			-		
7 -					
8 -			-	Remarks: End boring at ten feet. 6	Scound Water nat
9 –			F	encountered. No Caving. or soil discoloration.	No unusual adars
0 —	intervals		-	or son ancorarion.	
J -	sampled	interval preserved	F		



BORING LOG

OWNER Hawker Pacific	PROJECT No. 58-860/
LOCATION 1/3/0 Sherman Way, Sun Valley	BORING No. 8-3
DRILLED BY Dr:11-Line	PAGE/_ of/
	OATE /2-/-88
BOREHOLE DEPTH /O feet BOREHOLE DIA. 8 inches	
DESCRIPTION OF	MATERIALS
2" Asphaltic Pavin	<i>3</i>
SAND - medium to coarse	arained, trace silt down
to maist-maisture	increasing with depth,
2 - light brown.	
3 -	
4-	The state of the s
"	
5 - 3 - 1	
6 -	
7 -	
8 - -	
9	
1 -	
2 -	
3 -	
4 -	
5	
6 -	
Remarks:	Ground Water not
encountered. No Caving or soil discoloration	. No unusual adors
0 - interval	
Sampled Interver	



ANALYTICAL REPORT

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105 (818) 795-7553 (213) 681-4655

FAX: (818) 795-8579

LOG NO: P88-12-019

Received: 01 DEC 88 Reported: 09 DEC 88

Mark Miller Law Environmental 3420 N. San Fernando Rd., Suite 200 Burbank, CA 91504

Project: 58-8601

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE	DESCRIPTION, S	SOIL SAMPL	ES		DA	TE SAMPLED
12-019-1 B-1 1' 12-019-2 B-1 5' 12-019-3 B-1 10 12-019-4 B-2 1' 12-019-5 B-2 5'	,					01 DEC 88 01 DEC 88 01 DEC 88 01 DEC 88 01 DEC 88
PARAMETER		12-019-1	12-019-2	12-019-3	12-019-4	12-019-5
Vol.Pri.Poll. (EPA Date Extracted Dilution Factor, 1,1,1-Trichloroet 1,1,2,2-Tetrachlo 1,1,2-Trichloroet 1,1-Dichloroethan 1,1-Dichloroethan 1,2-Dichlorobenze 1,2-Dichloropropa 1,3-Dichlorobenze cis-1,3-Dichlorop	Times 1 hane, ug/kg roethane, ug/kg hane, ug/kg e, ug/kg ene, ug/kg ne, ug/kg ne, ug/kg ne, ug/kg	12/06/88 1 <5 <5 <5 <5 <5 <5 <5 <5	12/06/88 1 <5 <5 <5 <5 <5 <5 <5 <5	12/06/88 1 <5 <5 <5 <5 <5 <5 <5 <5	12/06/88 1 <5 <5 <5 <5 <5 <5 <5	12/06/88 1 <5 <5 <5 <5 <5 <5 <5 <5
l,4-Dichlorobenze 2-Chloroethylviny	ne, ug/kg	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5
2-Hexanone, ug/kg Acetone, ug/kg Acrolein, ug/kg Acrylonitrile, ug/ Bromodichlorometh	_	<5 <50 <50 <50 <5	<5 <50 <50 <50 <5	<5 <50 <50 <50 <5	<5 <50 <50 <50 <5	<5 <50 <50 <50 <5
Bromomethane, ug/l		<5 <5	<5	< 5	< 5	< 5



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Burbank, CA 91504

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION,	SOIL SAMPL	ES		DA	TE SAMPLED
12-019-1	B-1 1'					01 DEC 88
12-019-2				-		01 DEC 88
12-019-3						01 DEC 88
12-019-4	B-2 1'					01 DEC 88
12-019-5	B-2 5'					01 DEC 88
PARAMETER		12-019-1	12-019-2	12-019-3	12-019-4	12-019-5
Benzene,	ug/kg	<5	<5	<5	· < 5	<5
	zene, ug/kg	<5	<5	<5	<5	<5
	trachloride, ug/kg	<5	<5	<5	<5	<5
	ane, ug/kg	<5	<5	<5	<5	<5
Bromoform		<5	<5	<5	<5	<5
Chlorofor		<5	<5	<5	<5	₹5
Chloromet	hane, ug/kg	<5	<5	<5	<5	<5
Carbon Di	sulfide, ug/kg	<5	<5	<5	<5	<5
Dibromoch	loromethane, ug/kg	<5	<5	<5	<5	<5
Ethylbenz	ene, ug/kg	<5	<5	<5	<5	<5
Freon 113	, ug/kg	<5	<5	<5	<5	<5
Methyl Is	obutyl Ketone, ug/kg	<5	<5	<5	<5	<5
Methyl Et	hyl Ketone, ug/kg	<50	<50	<50	<50	<50
	Chloride, ug/kg	16	6	6	5	5
Tetrachlo	roethyl ene , ug/kg	<5	<5	<5	<5	<5
Styrene,	ug/kg	<5	<5	<5	<5	<5
Trichloro	ethylene, ug/kg	<5 <5	<5	<5	<5	<5
Trichloro	Trichlorofluoromethane, ug/kg		<5	<5	<5	<5
Toluene,		<5	<5	<5	<5	<5
	tate, ug/kg	<50	<5 0_	<50	<50	<50
Vinyl Chl	oride, ug/kg	<5	<5	<5	<5	<5



ANALYTICAL REPORT

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, S	SOIL SAMPL	ES		DA	TE SAMPLED
12-019-1 12-019-2 12-019-3 12-019-4 12-019-5	B-1 1' B-1 5' B-1 10' B-2 1' B-2 5'					O1 DEC 88 O1 DEC 88 O1 DEC 88 O1 DEC 88 O1 DEC 88
PARAMETER	***************************************	12-019-1	12-019-2	12-019-3	12-019-4	12-019-5
Total Xyler trans-1,2-E trans-1,3-E		<50 <5 <5	<50 <5 <5	<50 <5 <5	<50 <5 <5	



ANALYTICAL REPORT

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105 (818) 795-7553 (213) 681-4655

FAX: (818) 795-8579

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Received: 01 DEC 88 Reported: 09 DEC 88

Mark Miller Law Environmental 3420 N. San Fernando Rd., Suite 200 Burbank, CA 91504

Project: 58-8601

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL S	DATE SAMPLED			
12-019-6 12-019-7 12-019-8 12-019-9	B-3 1' B-3 5'		-		01 DEC 88 01 DEC 88 01 DEC 88 01 DEC 88
PARAMETER		12-019-6	12-019-7	12-019-8	12-019-9
Date Extra Dilution F 1,1,1-Tric 1,1,2,2-Te 1,1,2-Tric 1,1-Dichlo 1,2-Dichlo 1,2-Dichlo 1,2-Dichlo 1,3-Dichlo 2-Chloroeth 2-Hexanone, Acetone, ug Acrylonitri	actor, Times I hloroethane, ug/kg trachloroethane, ug/kg hloroethane, ug/kg roethane, ug/kg roethylene, ug/kg roethane, ug/kg robenzene, ug/kg	12/06/88 1 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	12/06/88 1 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	12/07/88 1 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	12/07/88 1 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5



ANALYTICAL REPORT

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105 (818) 795-7553 (213) 681-4655

FAX: (818) 795-8579

LOG NO: P88-12-019

Received: 01 DEC 88 Reported: 09 DEC 88

Mark Miller Law Environmental 3420 N. San Fernando Rd., Suite 200 Burbank, CA 91504

Project: 58-8601

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES			DATE SAMPLED		
12-019-6 12-019-7 12-019-8 12-019-9	B-3 1' B-3 5'			7.	01 DEC 88 01 DEC 88 01 DEC 88 01 DEC 88	
PARAMETER		12-019-6	12-019-7	12-019-8	12-019-9	
Chlorobenzene, ug/kg Carbon Tetrachloride, ug/kg Chloroethane, ug/kg Bromoform, ug/kg Chloroform, ug/kg Chloromethane, ug/kg Carbon Disulfide, ug/kg Dibromochloromethane, ug/kg Ethylbenzene, ug/kg Freon 113, ug/kg Methyl Isobutyl Ketone, ug/kg Methyl Ethyl Ketone, ug/kg Methylene Chloride, ug/kg		<5 <5 <5 <5 <5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5		<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <	
Styrene, u Trichloroe Trichlorof Toluene, u	thylene, ug/kg luoromethane, ug/kg g/kg	<5 <5 <5 <5	<5 <5 <5 <5	<5 <5 <5 <5	<5 <5 <5 <5 <5	
Vinyl Acetate, ug/kg Vinyl Chloride, ug/kg Total Xylene Isomers, ug/kg trans-1,2-Dichloroethylene, ug/kg		<50 <5 <50 <5	<50 <5 <50 <5	<50 <5 <50 <5	<5 <50 <5	



ANALYTICAL REPORT

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Project: 58-8601

REPORT OF ANALYTICAL RESULTS

					_
LOG NO	SAMPLE DESCRIPTION, SOIL S.	AMPLES		DA	TE SAMPLED
12-019-6 12-019-7 12-019-8 12-019-9	B-2 10' B-3 1' B-3 5' B-3 10'				01 DEC 88 01 DEC 88 01 DEC 88 01 DEC 88
PARAMETER		12-019-6	12-019-7	12-019-8	12-019-9
trans-1,3-	Dichloropropene, ug/kg	<5	<5	<5	<5



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Project: 58-8601

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAM		DATE SAMPLED
12-019-10	B-1-1' BC/QC SPK		01 DEC 88
PARAMETER		12-019-10	
Date Extra Dilution F l,l-Dichlo Benzene, P Chlorobenz Trichloroe Toluene, P	actor, Times 1 roethylene, Percent ercent ene, Percent thylene, Percent	12/06/88 1 130 100 105 85 105	



ANALYTICAL REPORT

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FAX: (818) 795-8579

LOG NO: P88-12-019

Received: 01 DEC 88 Reported: 09 DEC 88

Mark Miller Law Environmental 3420 N. San Fernando Rd., Suite 200 Burbank, CA 91504

Project: 58-8601

REPORT OF ANALYTICAL RESULTS

			6
LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DATE SAMPLED
12-019-11	B-1 1' BC/QC DUP-SPK		01 DEC 88
PARAMETER		12-019-11	
Date Extra Dilution F 1,1-Dichlo Benzene, F Chlorobenz Trichloroe Toluene, P	Factor, Times 1 Proethylene, Percent Percent Sene, Percent ethylene, Percent	12/06/88 1 130 110 110 90 110	



ANALYTICAL REPORT

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FAX: (818) 795-8579

LOG NO: P88-12-019

Received: 01 DEC 88 Reported: 09 DEC 88

Mark Miller Law Environmental 3420 N. San Fernando Rd., Suite 200 Burbank, CA 91504

Project: 58-8601

REPORT OF ANALYTICAL RESULTS

	idioni oi mai	SILICAL RESULTS	rage
LOG NO	SAMPLE DESCRIPTION, NON-SALINE	E WATER SAMPLES	DATE SAMPLED
	Laboratory Control Standard		
PARAMETER		12-019-12	
	oll. (EPA-8240)		
Date Extr		12/06/88	
	Factor, Times 1	1	
	chloroethane, Percent	· 95	
1.1.2.2-T	etrachloroethane, Percent	75	
	chloroethane, Percent	110	
	oroethane, Percent	95	
	oroethylene, Percent	90	
1.2-Dichl	oroethane, Percent	95	
	orobenzene, Percent	100	
1,2-Dichl	oropropane, Percent	90	
1,3-Dichl	orobenzene, Percent	100	
cis-1,3-D	ichloropropene, Percent	80	
1,4-Dichl	orobenzene, Percent	100	
2-Chloroe	thylvinylether, Percent	90	
2-Hexanon	e, Percent	105	
Acetone,	Percent	85	
Acrolein,	Percent	69	
	rile, Percent	71	
Bromodich.	loromethane, Percent	95	
Bromometha	ane, Percent	160	
Benzene,		90	
	zene, Percent	100	
	trachloride, Percent	90	•
Chloroetha	ane, Percent	90	



ANALYTICAL REPORT

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FAX: (818) 795-8579

LOG NO: P88-12-019

Received: 01 DEC 88 Reported: 09 DEC 88

Mark Miller Law Environmental 3420 N. San Fernando Rd., Suite 200 Burbank, CA 91504

Project: 58-8601

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE DESCRIPTION, NON-SALI		DATE SAMPLED
12-019-12 Laboratory Control Standard		
PARAMETER	12-019-12	
Bromoform, Percent	75	
Chloroform, Percent	100	
Chloromethane, Percent	80	
Carbon Disulfide, Percent	. 80	
Dibromochloromethane, Percent	95	
Ethylbenzene, Percent	90	
Freon 113, Percent	85	
Methyl Isobutyl Ketone, Percent	95	
Methyl Ethyl Ketone, Percent	110	
Methylene Chloride, Percent	75	
Tetrachloroethylene, Percent	85	
Styrene, Percent	90	
Trichloroethylene, Percent	95	
Trichlorofluoromethane, Percent	65	
Toluene, Percent	80	
Vinyl Acetate, Percent	55	
Vinyl Chloride, Percent	205	
Total Xylene Isomers, Percent	88	
trans-1,2-Dichloroethylene, Percent	80	
trans-1,3-Dichloropropene, Percent	80	



ANALYTICAL REPORT

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FAX: (818) 795-8579

P88-12-019 LOG NO:

Received: 01 DEC 88 Reported: 09 DEC 88

Mark Miller Law Environmental 3420 N. San Fernando Rd., Suite 200 Burbank, CA 91504

Project: 58-8601

	REPORT	OF ANALYTICAL RESULTS	Page 11
LOG NO	SAMPLE DESCRIPTION, BLA	NK WATER SAMPLES	DATE SAMPLED
12-019-13	Reagent Blank		
PARAMETER		12-019-13	
Vol.Pri.Pol Date Extra Dilution I 1,1,1-Tric 1,1,2,2-Tric 1,1-Dichlo 1,2-Dichlo 1,2-Dichlo 1,2-Dichlo 1,2-Dichlo 1,3-Dichlo cis-1,3-Di 1,4-Dichlo 2-Chloroet 2-Hexanone Acetone, u Acrolein, Acrylonitr Bromometha Benzene, u Chlorobenz	ll. (EPA-8240) acted Factor, Times l chloroethane, ug/L ctrachloroethane, ug/L chloroethane, ug/L croethane, ug/L croethylene, ug/L crobenzene, ug/L crobenzene, ug/L crobenzene, ug/L chloropropene, ug/L crobenzene, ug/L	12/06/88 1	



ANALYTICAL REPORT

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FAX: (818) 795-8579

LOG NO: P88-12-019

Received: 01 DEC 88 Reported: 09 DEC 88

Mark Miller Law Environmental 3420 N. San Fernando Rd., Suite 200 Burbank, CA 91504

Project: 58-8601

REPORT OF ANALYTICAL RESULTS

Page 12

LOG NO	SAMPLE DESCRIPTION, BLA	INK WATER SAMPLES	DATE SAMPLED
12-019-13	Reagent Blank		
PARAMETER		12-019-13	
Carbon Dis Dibromochl Ethylbenze Freon 113, Methyl Iso Methyl Eth Methylene Tetrachlor Styrene, u Trichloroe Trichloroe Toluene, u Vinyl Acet Vinyl Chlo Total Xyle trans-1,2-	y ug/L m, ug/L mane, ug/L sulfide, ug/L loromethane, ug/L loride, ug/L loride, ug/L loromethane, ug/L loride, ug/L loride, ug/L loride, ug/L loride, ug/L loride, ug/L loride, ug/L	<5 <5 <5 <5 <5 <50 9 <5 <5 <5 <5 <5 <50 <55 <50 <55	
trans-1,2-			

Jeffrey A Erjon, Laboratory Manager

373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 • (818) 795-7553

January 3, 1989

Mr. Warren Gross Project: 58-8601
Law Environmental

3420 North San Fernando Road, Suite 200 Burbank, California 91504

Subject: Methylene Chloride Contamination in the Laboratory

Dear Mr. Gross:

As we discussed with the low-level 8240 analyses for Brown and Caldwell Laboratories log number P88-12-019, methylene chloride is a common laboratory contaminant used in several organic sample preparation, including Methods 625 and 608. Although we take special precautions to isolate the use of methylene chloride, we cannot eliminate this compound entirely from the laboratory atmosphere. The levels of methylene chloride vary, not only from day to day, but also from morning to evening, depending upon the type of sample preparation activity taking place in the laboratory. We typically see between 2 and 10 ug/L methylene chloride in our laboratory blanks.

We reported a blank value of 9 ug/L methylene chloride with your report. The sample values ranged from 6 to 16 ug/kg methylene chloride. This is laboratory contamination and this variance is within reason.

Should you have any questions, please do not hesitate to call us.

Very truly yours,

BROWN AND CALDWELL

Jane Freemyer

Client Services Manager

JF:lah

LAW ENVIRONMENTAL, INC.

3420 N. San Fernando Blvd. Suite 200 Burbank, California 91504 (818) 848-0214

CHAIN OF CUSTODY RECORD

Lab Log Number 088-12-019

Remarks DOCUMENTS KTECTION. 5-10 pm INCHADE Analyses Required Containers Number of Project Number 58-960 Sampled by MARK MIWER Sample Description 8-205 B-3@10 1010 B-1@5 102-8 B-20 8-10 NUIDONMENTAL -30 B-3@ TANKETY TACIFIC Report Attention WARREN GROSS 8 95 Type Date Time Sampled Sampled 1/1/88 Project Name Client Name Sample Number O R 4 4 3

Signature	Сопрыту	Date	Time
Relinquished by Mark I Mill	LAU TAVITONMENTAL	12/1/98	1:3501
Received by R. E. Turn	BCAL	12/1/88	12/1/88 73500
Relinquished by			
Received by			
Relinquished by			
Received by			
1 T T T T T T T T T T T T T T T T T T T			

Samples are discarded 30 days after results are reported, unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. KOTE:

*AQ - Aqueous; MA - Monaqueous; SL - Sludge; GW - Ground Water; SO - Soil; PE - Petroleum; OT - Other

California te Department Of Health Sices Southern Calif a Laboratory - SWOIS Lab No. 5091

LAB SAMPLE ID NO.: 905-4847

DATE REPORTED : 6/6/89

SAMPLER:

All reporting units = 17/kg

N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 ppc

METHOD USED : EPA 8240

page 1 of 2

CECTE I	111111111111111111111111111111111111111
CODE	ANALYSIS RESULTS
34210	NB
34215	
34030	
32101	
32104	
34413	
32102	
34301	
34311	
34576	
32106	
34418	
32105	
34536	
34566	
34571	
34668	
34496	
34531	
34501	
77093	
34546	
34541	
34704	
34699	
34371	
77651	
34423	
81595	
81596	
	STORET CODE 34210 34215 34030 32101 32104 34413 32102 34301 34311 34576 32106 34418 32105 34536 34566 34571 34668 34496 34531 34668 34496 34531 34501 77093 34546 34541 34704 34699 34371 77651 34423 81595 81596

California St Department Of Health Serves Southern Californ aboratory - SWOIS Lab ID 5091
Vola le Organic Chemicals

LAB SAMPLE ID NO.: 905-4848

DATE REPORTED : .6/6/89

SAMPLER:

All reporting units = up/sq

N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 M/L

METHOD USED: EPA 8240

page 2 of 2

CONSTITUENT	STORET CODE	ANALYSIS RESULTS
etrachloroethylene	34475	ND.
oluene	34010	
.,1,1-Trichloroethane	34506	
,1,2-Trichloroethane	34511	
richloroethylene	39180	
richlorofluoromethane	34488	
inyl chloride	39175	
p-Xylenes		1
-Xylene		V
_		
a		
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		L

California St Department Of Health Services
Southern Califor Laboratory - SWOIS Lab II . 5091
Vol. 11e Organic Chemicals

LAB SAMPLE ID NO.: 905-4847

DATE REPORTED : 6/6/89

SAMPLER:

All reporting units = vy/kg

N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 pp-

METHOD USED: EPA 8240 page 2 of Z

CONCERTMENT		
CONSTITUENT	STORET CODE	ANALYSIS RESULTS
[etrachloroethylene	34475	NO
luene	34010	12
1,1,1-Trichloroethane	34506	NO
1,2-Trichloroethane	34511	
#ichloroethylene	39180	
richlorofluoromethane	34488	
nyl chloride	39175	
m,p-Xylenes		,
Xylene		-
_1		
		170078 85
·		
	-	
	1.	
	1	
	1	

	-



3420 N. SAN FERNANDO BLVD. SUITE 200 BURBANK, CALIFORNIA 91504 818-848-0214 (FAX 818-848-1674)

August 22, 1989

Hawker Pacific, Inc. 11310 Sherman Way Sun Valley, CA 91352

Project No. 58-9558 RWQCB File No. AB104.0436

Attention: Mr. Erik Johnson

Hazardous Waste Engineer

Gentlemen:

Our "Report of Environmental Assessment, Private Sewage Disposal System and Industrial Waste Clarifier, 11310 Sherman Way, Sun Valley, California, for Hawker Pacific, Incorporated," is herewith submitted. This investigation was authorized by approval of our Scope of Services letter for Project No. 58-9558, dated April 19, 1989, in response to the Regional Water Quality Control Board's requirement of additional subsurface investigation of the subject property.

Our recommendations for additional investigation in the area of the industrial waste clarifier are discussed in the report.

Following your review of the attached report, one copy should be submitted to the RWQCB for review. Law Environmental appreciates the opportunity to provide our services for this project. Should you have any questions regarding our report, please do not hesitate to call our office.

Respectfully submitted,

LAW ENVIRONMENTAL, INC.

Warren W. Gross

Staff Hydrogeologist

Warren W. Dross

G. H. Kanakhian.

Garabet H. Kassakhian, A.M., Ph.D. Manager, Special Projects Department

Senior Environmental Scientist

Glenn A. Brown, C.E.G. 3 Senior Vice President

WWG/ks/9558.RPT

(4 Copies Submitted)

21, 12



REPORT OF ENVIRONMENTAL ASSESSMENT PRIVATE SEWAGE DISPOSAL SYSTEM AND INDUSTRIAL WASTE CLARIFIER FOR

HAWKER PACIFIC, INC. 11310 SHERMAN WAY SUN VALLEY, CALIFORNIA

INTRODUCTION

This environmental assessment was performed for Hawker Pacific, Inc. in order to comply with the requirements of the Regional Water Quality Control Board (RWQCB). Law Environmental's final Work Plan for the assessment was submitted to the RWQCB and subsequently approved by the Board in their letter dated April 16, 1989.

The reporting deadline of June 26, 1989 specified by the RWQCB was waived by Ms. Mila Silvestre at the request of Law Environmental in order to allow time for the receipt of laboratory data collected by the RWQCB and inclusion of this data within our report.

Law Environmental has previously completed a subsurface investigation on the subject property for Hawker Pacific. The results of this investigation are included in our report dated January 4, 1989 for Project No. 58-8601.

Our professional services have been performed using that degree of care and skill customarily exercised under similar circumstances by reputable environmental professionals practicing in this or equivalent localities. No other warranty, expressed or implied, is made as to the information or professional advice included in this report. This report has been prepared expressly for Hawker Pacific, Inc. and is directed towards complying with their specific needs. This report has not been prepared for use by other parties and may not contain sufficient information for other parties or other uses. Any other use, interpretation or emphasis, other than that contained herein, is done at the reader's own risk.

All findings and conclusions derived from measurements or analyses of soil, water, air and soil gas are based on the conditions which existed only at those particular sample locations and the times of sampling. They are constrained by detection limits, equipment, and the specific analytical methods used.

PURPOSE

The purpose of this investigation is to determine if subsurface soils on the subject property have been contaminated by the leakage of selected organic and/or inorganic contaminants from the private sewage disposal systems or the industrial waste clarifier and, if so, to what extent area ground water may be threatened.



SCOPE OF INVESTIGATION

Prior to drilling, a review of available aerial photographs of the site and vicinity were examined for evidence of pertinent elements of the developmental history of the subject property. The Los Angeles Department of Sanitation was contacted regarding existing records of private sewage disposal systems (PSDS) on the property. An investigation of the extent of the PSDS system components was also completed.

Two 40 foot soil borings were drilled adjacent to two private sewage disposal systems. Two additional borings, each terminated at a depth of seven feet, were drilled at the location of the industrial waste clarifier in Building 2. Undisturbed soil samples were collected from the borings and submitted to a state-certified analytical laboratory for testing in accordance with RWQCB requirements. At the time of drilling, a RWQCB inspector was present to approve the boring locations, to observe the soil sampling protocol, and to collect split samples. The locations of pertinent features are shown on Figure 1, Site Map.



SUBSURFACE INVESTIGATIVE METHODS

PSDS Location Survey

Law Environmental retained Spectrum E.S.I. in order to probe accessible PSDS components and determine their location and dimensions. Spectrum also utilized several geophysical techniques in an effort to identify any leach fields associated with septic tanks in order to allow determination of whether or not additional borings would be required for the initial characterization of soils in the vicinity of the PSDS installations. Instrumentation utilizing the following methods of detection were employed:

- o Ground penetrating radar
- o Electromagnetic induction
- o Electromagnetic conduction (induced)
- o Electromagnetic conduction (ambient)

Drilling and Sampling

PSDS

All field work was conducted on May 30, 1989. One soil boring was drilled at each of the two PSDS locations. Each boring was completed to a depth of 40 feet at the locations shown on Figure 2, Site Detail, PSDS Locations. Soil samples were collected from the borings at five foot intervals, beginning at a depth of five feet.



A truck mounted hollow stem auger drilling rig was employed for the borings. Soil samples were obtained according to procedures outlined in Appendix A, Soil Sampling Protocol. The sampling equipment was thoroughly washed and rinsed before each use. All augers were steam cleaned prior to use. The soil samples were obtained by driving a split-spoon California sampler into the soil ahead of the augers. A soil sample from each sample interval was screened using an organic vapor analyzer. Samples were retained in brass tubes, capped with Teflon® liners and tight-fittings plastic lids secured with vinyl tape. The samples were labeled and placed in an iced cooler.

The soil samples were delivered to West Coast Analytical Services in Santa Fe Springs, a state certified hazardous materials testing facility. All samples were submitted for analyses of volatile organic compounds (EPA Methods 8010/8020). Two samples from each PSDS boring were submitted for analysis of nitrate by EPA Method 300.6.

Industrial Waste Clarifier

Two soil borings were drilled adjacent to the industrial waste clarifier at the locations shown on Figure 3, Site Detail, Industrial Waste Clarifier. The borings were within two feet of the clarifier. An electrically powered drilling apparatus equipped

with solid stem flight augers was employed for the borings. Soil samples were collected at depths of 2.5 and 6.5 feet. Auger refusal was encountered at a depth of 7 feet due to a cobble layer encountered at this depth. Samples were obtained by driving a solid core hand sampler into the soil to ensure an undisturbed sample. All samples were secured and preserved using methods similar to those previously cited for the PSDS borings (see Appendix A). The soil samples were delivered to West Coast Analytical Services, a state certified laboratory in Santa Fe Springs, California, where they were analyzed for volatile organic compounds (EPA Method 8010/8020).

FINDINGS

Records Search

Records from the Sewer Division of the County of Los Angeles Department of Sanitation confirmed the existence of a PSDS on the subject property. The original sewer permit was found to be issued in the year 1954. No indication of the location of the PSDS was available.

Aerial Photograph Review

An air photo search was carried out in an attempt to locate and characterize details of the two private sewage disposal systems on site. Air photos were obtained from the Public Relations Office of the Hollywood Burbank Airport.

Review of a 1958 photo of the property and vicinity revealed the presence of a large pit to the north of the site - probably a sand and gravel pit. Several additional photos which were not dated were observed in the collection. None of these photos provided useful details of the site. A 1969 photo showed that at that time neither rear building now present (Buildings 3 and 5) at the Hawker Pacific facility was in existence. No evidence of a PSDS was seen in the photos. The photo showing the greatest detail was dated 10/31/75. In the photo, the eastern rear building (Building #5) was present at the facility. There appeared to be some surface manifestation of a septic system present along the west side of the building.

The results of the probing and geophysical survey of the PSDS installations revealed the presence of two concrete holding tanks and one brick-lined seepage pit north of Building #3 and one concrete holding tank and one brick lined leach tank west of Building #5, as shown in Figure 2, Site Detail, PSDS Locations.



No leach fields were identified in association with either of the PSDS installations.

PSD8

Alluvial soils were encountered in the PSDS borings, consisting of medium to coarse-grained sand and silt with some gravel. A zone of water-saturated soils, approximately two to three feet thick, was encountered in boring B-1 at a depth of nine feet. This depth corresponds to the bottom depth of the PSDS leach pit. Soils at the same depth in boring B-2 were noted to contain much less moisture. Boring logs are included in Appendix B.

Free ground water was not encountered in either of the borings.

Recent water levels in the area are reported to be approximately

247 feet below ground surface, according to the Los Angeles County

Flood Control District.

Laboratory analysis of the samples collected from boring B-1 indicated the presence of toluene at all depths. Levels ranged from 9 ug/kg (parts per billion, by weight) to 110 ug/kg. The toluene concentration decreased sharply with depth below 25 feet (from 57 ug/kg to 11 ug/kg). No other volatiles were detected in boring B-1. Nitrate levels in samples collected from Boring B-1



at depths of 35 and 40 feet were found to be 3.5 and 3.9 mg/kg (parts per million, by weight), respectively.

Samples from boring B-2 were also found to contain toluene at all depths, ranging from 12 ug/kg to 120 ug/kg. In addition, tetrachloroethylene (PCE) was detected at the 10 and 15 foot depths (39 ug/kg and 3.9 ug/kg, respectively). Xylene was also detected at 20 feet (2 ug/kg). Nitrate levels in samples collected from Boring B-2 at depths of 35 and 40 feet were found to be 3.1 and 3.2 mg/kg, respectively.

No other volatile compounds were detected in any of the samples recovered from either boring. Analytical data for the PSDS borings are summarized in Table 1. The results of the split sample analyses by the RWQCB, which were provided to Law Environmental by Ms. Mila Silvestre, are also included. Complete analytical results are contained in Appendices B and C.

Additional PSDS Sampling

Law Environmental collected split soil samples from each PSDS boring at depths of 10, 20, 30 and 40 feet. The samples were turned over to the RWQCB inspector for testing by the California State Department of Health Services (DOHS) Laboratory. Each sample was analyzed for volatile organic compounds by EPA Method 8240 and



for total nitrogen by EPA Methods 350.2, 351.3 and 353.2. The laboratory analytical report from the DOHS laboratory is included as Appendix C.

Results of the DOHS volatile organic analysis are also shown in Table 1. No volatiles other than those indicated were detected in any of the PSDS split samples.

Industrial Waste Clarifier

In boring CB-1, adjacent to the waste clarifier, both toluene and PCE were found to be present. Toluene concentrations were 14 ug/kg at 2.5 feet and 28 ug/kg at 6.5 feet. PCE concentrations were 3 ug/kg at 2.5 feet and 4 ug/kg at 6.5 feet.

Traces of toluene and PCE were also found in boring CB-2, although these compounds were present only in the sample recovered from a depth of 6.5 feet. At that depth toluene concentrations were 1 ug/kg, while PCE was found to be present at 7 ug/kg.

No other volatile compounds were detected in the samples collected from boring CB-1 or 2. Analytical data for the clarifier borings are summarized in Table 2.



CONCLUSIONS AND RECOMMENDATIONS

PSDS Locations

Conclusions

Based on the results of our subsurface investigation, it appears that traces of toluene are present at both PSDS locations in concentrations which decrease fairly regularly with depth. Traces of PCE and xylene are observed at shallow depths in boring B-2, but these substances are not present at depth. State action levels for toluene in drinking water are recognized as 100 ug/kg. Based on the observed trend shown on Table 1, it is reasonable to expect that the levels of toluene decrease to below the method detectable limits of 5 ug/kg at depths from 60 to 80 feet below ground surface. Data obtained from the split samples by the California State Department of Health Services are consistent with this conclusion.

Results of the nitrate analyses show that the highest levels of nitrate were found in the split samples collected by the RWQCB in Boring B-1 at depths of 10 and 40 feet below ground surface. Levels of nitrogen as nitrate (NO₃) were found at levels of 26.8 mg/kg and 21.7 mg/kg, respectively. At no other depths were levels of nitrogen found to be above 10 mg/kg. Data obtained from



the nitrate analysis conducted by West Coast Analytical Services for Law Environmental on the PSDS samples collected at depths of 35 and 40 feet yield consistently low nitrate levels of 3 to 4 ppm (ug/kg, by weight). State actions levels for nitrates in drinking water are recognized as 45 mg/kg.

Recommendations

In view of recent ground water levels in the area of the site at approximately 247 feet below ground surface, the two PSDS locations do not appear to pose a threat to the ground water beneath the site. We recommend no further investigation for the PSDS areas.

Industrial Waste Clarifier

Conclusions

Traces of toluene and PCE also appear in the soil adjacent to and below the industrial waste clarifier. At a depth of 6.5 feet, approximately one foot below the depth of the bottom of the clarifier, the highest toluene and PCE concentrations reported were 28 ug/kg and 7 ug/kg respectively. Although these concentrations are quite low, they do represent an increase over the concentrations of the same constituents measured at a depth of 2.5 feet.



Recommendations

In order to more definitively evaluate the potential for significant soil contamination in this area, we recommend that an additional boring be drilled adjacent to the location of Boring CB
1. Undisturbed soil samples should be collected at depths of 10,

15, and 20 feet and analyzed by EPA Method 8240. If field observations indicate evidence of soil contamination at a depth of 20 feet, then the boring should be deepened to 40 feet, if practical, with soil sampling and analysis continued at 5 foot intervals. A small, cart-mounted drilling rig will be appropriate for this additional investigation. Given the observed levels of soil contaminants shown by existing data, it appears unlikely that significant soil contamination from volatile organic compounds has occurred in the area of the clarifier. The recommended boring is to provide data in support of this observation.

TABLES

TABLE 1

CONCENTRATION OF TOLUENE IN ug/kg IN SOIL SAMPLES (PSDS BORINGS)

Depth in Feet	Boring B-1 Toluene*	Boring B-2 Toluene*
5	9	19
10	110/15	120/13
15	32	47
20	33/18	31/10
25	57	12
30	14/16	44/12
35	14	53
40 17/ND**	11/5	

^{*} Units are ug/kg, values after the slash (/) are from data collected by RWQCB personnel from the DOHS laboratory.

^{**} Not detected, detection limit equals 5 ug/kg.

TABLE 2

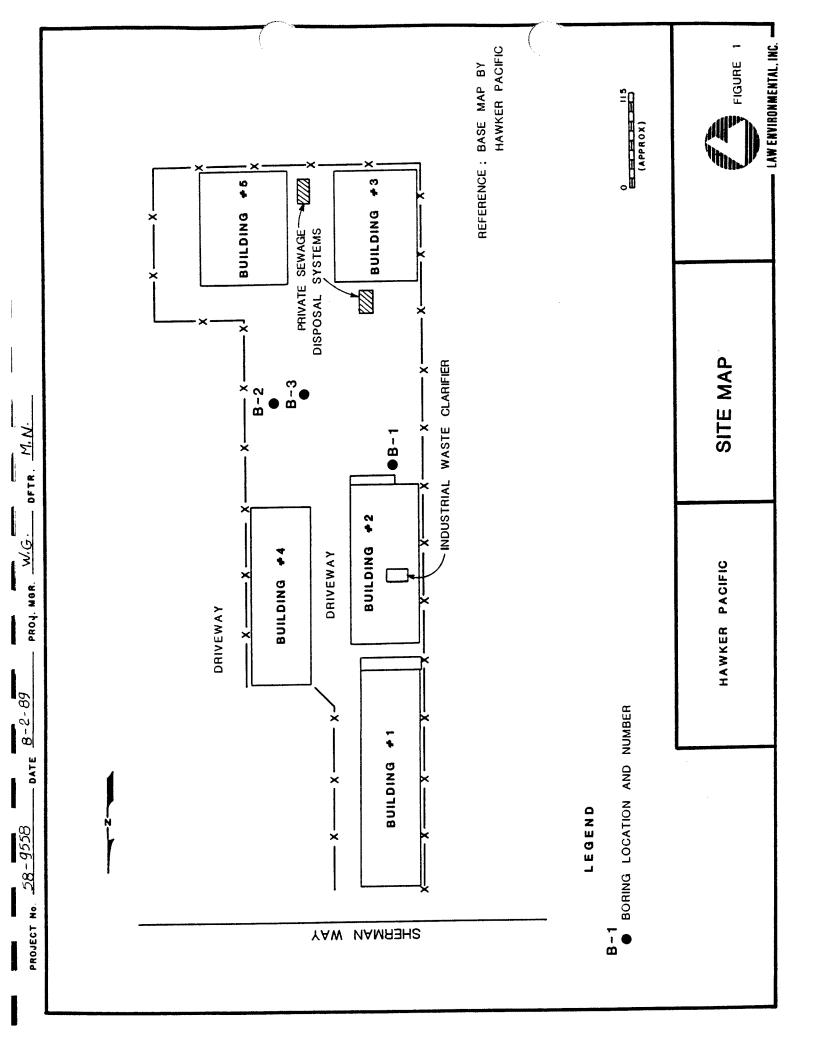
CONCENTRATIONS OF TOLUENE AND TETRACHLOROETHENE (PCE)
IN ug/kg IN SOIL SAMPLES FROM CLARIFIER BORINGS

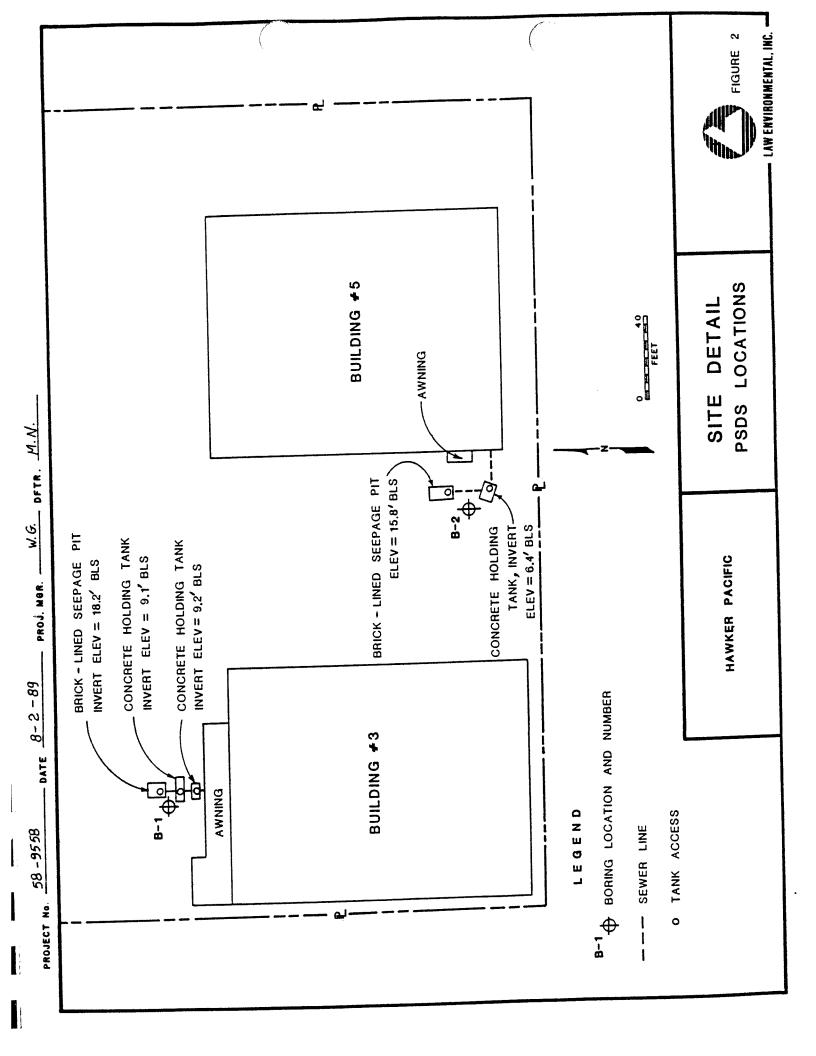
Depth in Feet	Boring CB-1		Boring CB-2	
	Toluene*	PCE*		PCE*
2.5	14	3	ND**	ND
6.5	28	4	1	7

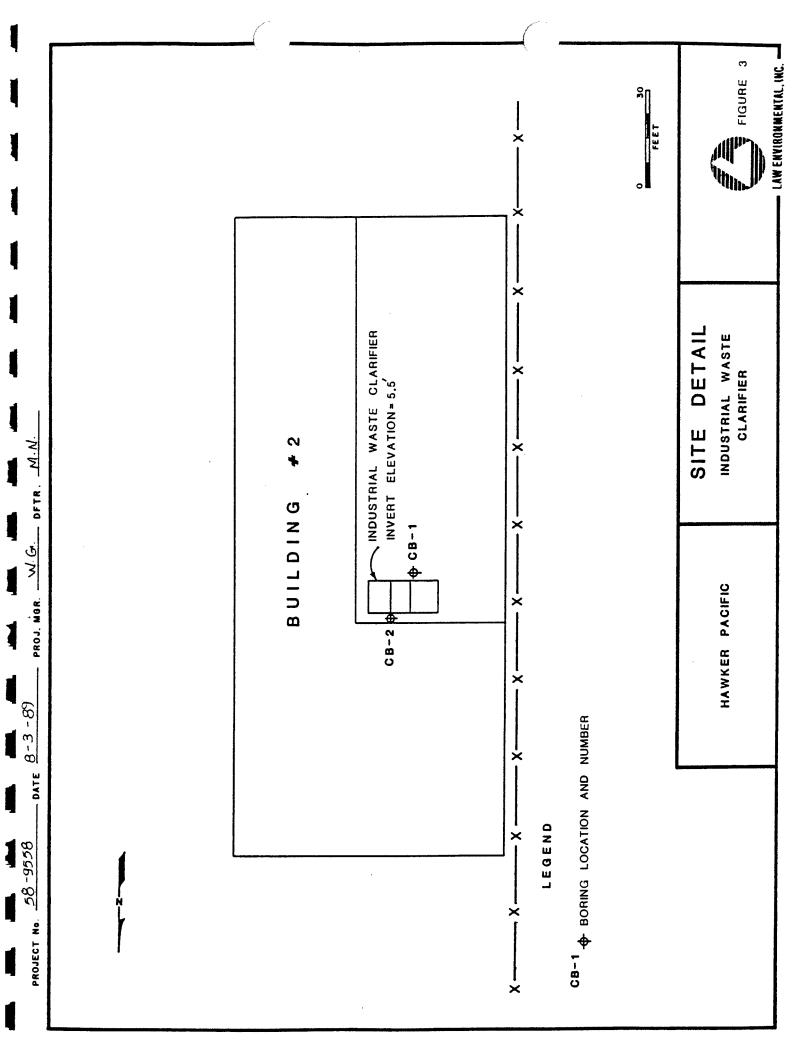
^{*} Units are in ug/kg.

^{**} Not detected, detection limit equals 5 ug/kg.

FIGURES







APPENDIX A

CORRESPONDENCE FROM THE REGIONAL WATER QUALITY CONTROL BOARD

LAW ENVIRONMENTAL WORK PLAN (Appendices not included)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—LOS ANGELES REGION

101 Centre Plaza Drive Monterey Park, California 91754-2156 (213) 266-7500

November 17, 1989

Mr. Erik Johnson HAWKER PACIFIC, INC. 11310 Sherman Way Sun Valley, CA 91352 NOV 2 1989

SITE ASSESSMENT WORKPLAN - AB1803 WELL INVESTIGATION PROGRAM (FILE NO. AB104.0020)

We are in receipt of your consultant's, Law Environmental, Inc., report dated November 14, 1989, containing the site assessment workplan for your facility.

We have reviewed the workplan and have no objections to its implementation, provided that all work is completed as specified in the proposal. The final locations of the soil test borings will be verified in the field on the day of drilling.

Please notify us at least one week prior to the date you plan to commence work at your facility so we can schedule an inspector to be present. The final report containing the results of the site assessment is due to this Regional Board by January 18, 1990.

If you have any questions, please contact Ms. Mila Silvestre at (213) 266-7529.

DAVID A. BACHAROWSKI

Environmental Specialist IV

cc: VMr. Warren Gross, Law Environmental, Inc.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—LOS ANGELES REGION

101 Centre Plaza Drive Monterey Park, California 91754-2156 (213) 266-7500

September 13, 1989

Mr. Erik Johnson HAWKER PACIFIC, INC. 11310 Sherman Way Sun Valley, CA 91352

SUBSURFACE INVESTIGATION - AB1803 WELL INVESTIGATION PROGRAM (FILE NO. AB104.0436)

Reference is made to your consultant's, Law Environmental, Inc., report dated August 10, 1989, containing the results of the subsurface investigation completed in the private sewage disposal system (PSDS) locations and in the industrial waste clarifier area at your facility.

We have reviewed and evaluated the information contained in the report, which has identified the presence of Toluene consistently with depth down to 40 feet below ground surface in the two PSDS locations. Further, Perchloroethylene and Toluene were identified to be present down to 6.5 feet below ground surface in the industrial waste clarifier area.

In order to further define the vertical extent of contamination beneath the areas of concern, you are required to develop a Site Assessment Workplan that includes the following:

- 1. A minimum of one (1) soil test boring to a depth of 80 ft below land surface in each of the two PSDS locations. Soil samples shall be taken at every 5-ft interval starting at 45 ft below land surface.
- 2. A minimum of one (1) soil test boring to a depth of 40 ft below land surface in the industrial waste clarifier area. Soil samples shall be taken at every 5-foot interval starting at 10 ft below land surface.
- 3. All soil samples shall be analyzed for Volatile Organic Compounds by EPA Method 8240 or EPA Methods 8010 & 8020.

Your Site Assessment Workplan containing all of the items identified above is due to this Regional Board by October 13, 1989. If you have any questions concerning this matter, please contact Mila P. Silvestre at (213) 266-7529.

DAVID A. BACHAROWSKI

Environmental Specialist IV

Mr. Erik Johnson Page 2

cc: Alisa Greene, U.S. EPA Region IX
Bill Jones, L. A. County, Dept. of Health Services
Warren Gross, Law Environmental, Inc.
Public Aliwalas, City of L. A., Bureau of Sanitation

APPENDIX B

BORING LOGS



BORING LOG

OWNER <u>Hawker-</u>	Pacific	, Inc.		W			_ PROJECT !	No . <u>58-9558</u>
LOCATION 11310 Sherman Way, Sun Valley, California						BORING N	o. <u>B-l</u>	
DRILLED BY	Orill-Li	ine					_ PAGE	<u>l</u> of <u>2</u>
DRILLING METHO	<u>ا </u>	ollow st	em auger				_ DATE DRI	LLED 05-30-89
BOREHOLE DEPTH	4 40	<u> feet</u>	BOREH	OLE DI	A. <u>8-1/4</u>	inches	LOGGED B	Y Mike Hernandez
/_/	/	//			固			50
		//.	ş ^o	CLAY	SILT	SAND	GRAVEL	COBBLES
		4/ 27						
The state of the s	a Salar	J. L.	5/		DESCRIPT	ION OF MA	TERIALS	
	- 44	cuier-	<u>/ </u>		3 - 4 inches	of asphalt		
1-		SM	_ SILTY SAND		Light brown			
2	G.	SW						
	5	0	GRAVEL		coarser sand	with gravel	to 3 inches	
3-		•	-					
4-			_					
5_0855 5-10	9773	فو	- -					
		3	-					
6-			- -					
7-	0							
8-			- -					
			-					
9-		9	- -		perched water	encountered	d at 9 feet	
10 - 0905 7-10		o	-					
11-	Ø .		- -					
			-		less water			
12-		•	- -					
13-			-	•	sand still ve	rv moist		
14-		0	- -			- ,		
15-0930 5-10	a	a l	-					
15	2	Q	-					
16-	4	4	-					
17-		•	- -					
	0		-					
18-								
19-	0		-					



OWNER Hawker-Pacific, Inc.						_ PROJECT	No. <u>58-9558</u>			
LOCATION 11310 Sherman Way, Sun Valley, California						BORING N	o. <u>B-l</u>			
ORIL	LEO	ВҮ	Or:	ill-Line				PAGE	2 of 2	
ORIL	LING	METHO	00_	Hollow stem a	nder			OATE ORI	LLE0 <u>05-30-89</u>	· · · · · · · · · · · · · · · · · · ·
BORE	HOLE	0EPTH	·	40 feet	BOREHOLE OIA	. 8-1/4	inches	LOGGEO B	Y Mike Hernandez	
	/	/_/	/	/ //.					83	
	/60			// \$	CLAY	SILT	SANO	GRAVEL	COBBLES	
			? /			DESCRIPT	ION OF MA	ATERIALS		
	1				ve	ry moist, n	o odor			
21 -	0945	10		-						
22										
23 -	1									
24 -	0950	15-20		-						
25 -			2							
26 -	1									
27 -	-			_						
28 -	4			F.						
20					sti	.ll moist				
29 -	1000	9	•							
30 -										
31 -										•
72 -										
32 -				-						
33 -	1 1									
34 -	1010	7-8		-						
75 -	1010	/-8	C773							
35 -			2							
36 -										
37 -										
	1		1	6825077 (S)						
30 -										1
38 -				• •						

 $\hfill \hfill \hfill$ NOTES:



OWNER Hawker-Pacific, Inc.	PROJECT No. 58-9558
LOCATION 11310 Sherman Way, Sun Valley, California	BORING No. B-2
DRILLED 8Y Drill-Line	PAGE 1 of 2
DRILLING METHOD Hollow stem auger	DATE DRILLED 05-30-89
BOREHOLE DEPTH 40 feet BOREHOLE DIA. 8-1/4 inches	
S CLAY SILT SAND	GRAVEL COBBLES
SCLAY SILT SAND CLAY SILT SAND DESCRIPTION OF MA	TERIALS
3 - 4 inches of asphalt	
SW SAND AND Brown, some pebbles GRAVEL	
2 - gravel to 2 - 3 inches	
gravel to 2 - 3 inches	
5 1117 10	
5 - 1117 10 2	
6 - - -	
7 -	
8 -	
gravel	
10 1120 10	
11	d sand, less gravel
12 - very moist	
13 -	
16	
17 -	
19 -	



DWNERHawker-Pacific, IncPROJECT No	58-9558
_OCATION11310 Sherman Way, Sun Valley, CaliforniaBORING No{	8-2
DRILLEO BY Orill-Line PAGE 2	of <u>2</u>
ORILLING METHOO Hollow stem auger OATE ORILLEO	05-30-89
BOREHOLE DEPTH 40 feet BOREHOLE OIA. <u>8-1/4</u> inches LOGGEO BY <u>Mik</u>	
	BLES
CLAY SILT SAND GRAVEL COB	.6663
CLAY SILT SANO GRAVEL COB	
Some gravel	
22 -	
25 - 1140 15	
26 -	
27 -	
28 -	
29 -	
30 - 1146 20	
	•
32 -	
33 -	
34 –	
35 - 1151 25-30	
36 -	
37 -	
38 -	
39 - Land of 40 feet	
1205 20 End boring at 40 feet.	



WNER	Н	awker-	Pac	ific, In	nc.						PROJECT N	o. <u>58-9558</u>
						BORING No	. <u>CB-1</u>					
				s Drill							PAGE 1	of1
				Flight							_ DATE ORIL	LE0_05-30-89
				10.5f			REHOLE D	IA4	i i	nches	LOGGEO BY	Warren Gross
	,	,	/	/	, ,		CLAY	SI		SAND	GRAVEL	COBBLES
	TI WI		/	2 Jan () 2 Jan	11/35	5/		OESC	RIPTI	ON OF MA	TERIALS	
	/ 				\preceq			concrete	at su	rface		
1-						FILL						c, slightly damp, n hydrocarbon odor
3-	1200		2			SAND		Medium t	o coar	se grained		
4-						•						
5-												
6-						•						
7-	1330		2	•		GRAVELL	Y SAND					3 inch diameter,
8-				0	-						hydrocarbon od	lor
9-				, , o		.		cannot s	ampie	here due t	U TUCKS	
10-				• •		•						
11-					 	-		cannot I	remove	rocks to s		d to 6.5 feet, er encountered,
-					-	.		Dackilli	ied with	II SUII diiu	patched with	Concrete.
-		:				.						
-					-	-						
					F	•						
-						-						
·						• •						
-						• •						
-						•						

NOTES: Oenotes collection of undisturbed soil sample. $\hfill \square$

*TIP ambient is 5-8 ppm.



OWNER Hawker-Pacific, Inc.		PROJECT No58-9558
LOCATION 11310 Sherman Way, Sun Valley, Cali	ifornia	BORING No. CB-2
DRILLED BY AJ's Drilling		PAGE 1 of 1
DRILLING METHOD Flight auger		DATE DRILLED 05-30-89
BOREHOLE DEPTH <u>10</u> feet BOREHOLE C	OIA. <u>4</u> inches	
/_///		GRAVEL COBBLES
CLAY	SILT SAND	GRAVEL COBBLES
CLAY OF CLAY OF CLAY	DESCRIPTION OF MATE	ERIALS
A. G. G.	concrete at surface	
1- 2-1515 2-3 FILL		rown to black, slightly damp, halt base, no hydrocarbon odor
SAND	Medium to coarse grained	
3-	region to course grained	
4-		
5-		
6-	•	
7 1535 2-3 GRAVELLY SAND	Medium to coarse grained,	cobbles to 3 inch diameter,
8-	grey, slightly damp, no hy	drocarbon odor
	cannot sample here due to	rocks
9-		
10-		
	End boring at 10 feet, he cannot remove rocks to same	nole sloughed to 7 feet, uple, no water encountered,
	backfilled with soil and p	patched with concrete.
-		

NOTES: TIP ambient is 5-8 ppm. Denotes collect:

Denotes collection of undisturbed soil sample.

APPENDIX C

ANALYTICAL TEST RESULTS AND CHAIN-OF-CUSTODY

OF SOIL SAMPLES

(LAW ENVIRONMENTAL, INC.)

June 8, 1989

Burbank, CA



WEST COAST SERVICE, INC.

ANALYTICAL CHEMISTS

ANALYTICAL

Attn:

Warren Gross

3420 N. San Fernando Blvd., Suite 200 91504

JOB NO.

12851

LAW ENVIRONMNTAL, INC.

LABORATORY REPORT

Samples Received: Twenty (20) soil samples

Date Received: 5-31-89

Purchase Order No: Proj#: 58-9558/Hawker-Pacific-Environmental

The samples were analyzed as follows:

Samples Analyzed

<u>Analysis</u>

Results

Twenty (20) soils

and one (1) lab

blank

Halogenated and Aromatic

Volatile Organics by EPA 8010/8020

Data Sheets

Page 1 of 1

Senior Chemist

Northington, Ph.D. Technical Director

Job No:

12851

Date

Analyzed: 06-Jun-89

Analysis: EPA 601/602 (8010/8020)

Sample: B-1 @5.0'

Matrix: Soil

Samp Amt: 1 gm Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	 5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	9	1
Chlorobenzene	ND	4 '
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

12851

Job No:

Date Analyzed: 06-Jun-89

Analysis: EPA 601/602 (8010/8020)

Matrix: Soil

Sample: B-1 @10.0'

Samp Amt: 1 gm Dil Fact:

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	110	1
Chlorobenzene	ND	4
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Job No: 12851

Date

Analyzed: 06-Jun-89

Analysis: EPA 601/602 (8010/8020)

Matrix: Soil

Sample: B-10 15.0'

Samp Amt: 1 gm Dil Fact:

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	5 3 5
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	3 2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	32	1
Chlorobenzene	ND	4
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

LAW ENVIRONMENTAL, INC. Client:

Job No: 12851

Date

Samp Amt: Analyzed: 06-Jun-89 1 gm Dil Fact:

Sample: B-1@ 20.0'

Matrix:

Soil

1

Analysis: EPA 601/602 (8010/8020)

Detection Concentration ug/Kg Limits Compound _______ ND Chloromethane 5 ND Bromomethane 3 Vinyl Chloride ND 5 ND Chloroethane 25 Methylene Chloride ND 3 1,1-Dichloroethylene ND 2 1,1-Dichloroethane ND trans-1,2-Dichloroethylene ND 1.5 2 Trichlorofluoromethane ND 1.5 ND Chloroform 2 1,2-Dichloroethane ND 1.5 1,1,1-Trichloroethane ND 1.5 Carbon Tetrachloride ND 1.5 Bromodichloromethane ND 1.5 1,1,2,2-Tetrachloroethane ND 1.5 1,2-Dichloropropane ND trans-1,3-Dichloropropylene ND 1.5 1.5 ND Trichloroethylene 1.5 Dibromochloromethane ND 1.5 1,1,2-Trichloroethane ND 1 Benzene ND cis-1,3-Dichloropropylene ND 1.5 4 2-Chloroethyl Vinyl Ether ND 2.5 ND Bromoform 1.5 Tetrachloroethylene ND 1 Toluene 33 ND 4 Chlorobenzene 1 ND Ethylbenzene 1 ND Total Xylenes 1 1,3-Dichlorobenzene ND ND 1 1,4-Dichlorobenzene

ND-Not Detected. The limit of detection is reported above.

1,2-Dichlorobenzene

ND

Job No: 12851

Date

Matrix: Soil

Analyzed: 06-Jun-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact:

Sample: B-1 @25'

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	57	1
Chlorobenzene	ND	4
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Job No: Date

12851

Analyzed: 06-Jun-89

Analysis: EPA 601/602 (8010/8020)

Sample: B-1 @30'

Soil Matrix:

Samp Amt: 1 gm Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	14	1
Chlorobenzene	ND	4
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Client: LAW ENVIRONMENTAL, INC. Sample: B-1 @35'

Job No: 12851

Date Matrix: Soil

Analyzed: 06-Jun-89 Samp Amt: 1 gm

Analysis: EPA 601/602 (8010/8020) Dil Fact:

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	14	1
Chlorobenzene	ND	4
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Client: LAW ENVIRONMENTAL Sample: B-1 @40'

Job No: 12851

Date Matrix: SOIL

Analyzed: 06-JUNE-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ИD	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	11	1
Chlorobenzene	ND	8
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	3
1,4-Dichlorobenzene	ND	4
1,2-Dichlorobenzene	ND	3

Client: LAW ENVIRONMENTAL

Job No: 12851

Matrix: SOIL Date

Analyzed: 06-JUNE-89 Analysis: EPA 601/602 (8010/8020) 1 gm Samp Amt: Dil Fact: 1

Sample: B-2 @5'

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	19	1
Chlorobenzene	ND	8
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	3
1,4-Dichlorobenzene	ND	4
1,2-Dichlorobenzene	ND	3

Job No:

12851

Date

Analyzed: 06-Jun-89 Analysis: EPA 601/602 (8010/8020) _mple: B-2 @10'

Matrix: Soil

Samp Amt:

1 qm 1

1

1

Dil Fact:

Concentration Detection Compound ug/Kg Limits _______ Chloromethane ND 5 Bromomethane ND 5 Vinyl Chloride ND 3 Chloroethane ND 5 Methylene Chloride ND 25 1,1-Dichloroethylene ND 3 1,1-Dichloroethane ND 2 trans-1,2-Dichloroethylene ND 1.5 Trichlorofluoromethane ND 2 Chloroform ND 1.5 1,2-Dichloroethane ND 2 1,1,1-Trichloroethane ND 1.5 Carbon Tetrachloride ND 1.5 Bromodichloromethane ND 1.5 1,1,2,2-Tetrachloroethane ND 1.5 1,2-Dichloropropane ND 1.5 trans-1,3-Dichloropropylene ND 1.5 Trichloroethylene ND 1.5 Dibromochloromethane ND 1.5 1,1,2-Trichloroethane ND 1.5 Benzene ND 1 cis-1,3-Dichloropropylene ND 1.5 2-Chloroethyl Vinyl Ether ND 4 Bromoform 2.5 Tetrachloroethylene 39 1.5 Toluene 120 1 Chlorobenzene ND 4 Ethylbenzene ND 1 Total Xylenes ND 1 1,3-Dichlorobenzene ND 1 1,4-Dichlorobenzene

ND

ND

ND-Not Detected. The limit of detection is reported above.

1,2-Dichlorobenzene

Client: LAW ENVIRONMENTAL Sample: B-2 @15'

Job No: 12851

Date Matrix: SOIL

Analyzed: 06-JUNE-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	3.9	1.5
Toluene	47	1
Chlorobenzene	ND	8
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	3
1,4-Dichlorobenzene	ND	4
1,2-Dichlorobenzene	ND	3

ND-Not Detected. The limit of detection is reported above.

=7/V/OF:VG

Job No: 12851

Date Matrix: Soil

Analyzed: 07-Jun-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Sample: B-2 @20'

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	 ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ИD	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ИD	2
trans-1,2-Dichloroethylene	ИD	1.5
Trichlorofluoromethane	ND	2
Chloroform	ИD	1.5
1,2-Dichloroethane	ИD	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	31	1
Chlorobenzene	ND	$\overline{4}$
Ethylbenzene	ND	1
Total Xylenes	1	ī
1,3-Dichlorobenzene	ND	ī
1,4-Dichlorobenzene	ND	ī
1,2-Dichlorobenzene	ND	ī

ND-Not Detected. The limit of detection is reported above.

= 74404

Sample: B-2 @25' Client: LAW ENVIRONMENTAL

Job No: 12851

Matrix: SOIL Date

Samp Amt: 1 gm Analyzed: 06-JUNE-89 Analysis: EPA 601/602 (8010/8020) 1 Dil Fact:

 Compound	Concentration ug/Kg	Detection Limits ========
Compound Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride 1,1-Dichloroethylene 1,1-Dichloroethane trans-1,2-Dichloroethylene Trichlorofluoromethane Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1,1,2,2-Tetrachloroethane 1,2,2-Tetrachloropropylene Trichloroethylene Dibromochloromethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane Benzene cis-1,3-Dichloropropylene	ug/Kg ND	
2-Chloroethyl Vinyl Ether Bromoform Tetrachloroethylene Toluene Chlorobenzene. Ethylbenzene Total Xylenes 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene	ND ND ND 12 ND	2.5 1.5 1 8 1 1 3 4

Sample: B-2 @30' Client: LAW ENVIRONMENTAL, INC.

12851 Job No:

Date

Matrix: Soil Samp Amt: 1 gm

Analyzed: 07-Jun-89 Dil Fact: Analysis: EPA 601/602 (8010/8020)

Compound	Concentration ug/Kg	Detection Limits
=======================================		5
Chloromethane	ND	5
Bromomethane	ND	3
Vinyl Chloride	ND	5
Chloroethane	ND	25
Methylene Chloride	ND	3
1,1-Dichloroethylene	ND	2
1,1-Dichloroethane	ND	1.5
trans-1,2-Dichloroethylene	ND	2
Trichlorofluoromethane	ND	1.5
Chloroform	ND	2
1,2-Dichloroethane	ND	1.5
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	_
cis-1,3-Dichloropropylene	ND	1.5 4
2-Chloroethyl Vinyl Ether	ND	•
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	44	1 4
Chlorobenzene	ND	
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1 1 1
1,4-Dichlorobenzene	ND	-
1,2-Dichlorobenzene	ND	1

Client: LAW ENVIRONMENTAL, INC. Sample: B-2 @35'

Job No: 12851

Date Matrix: Soil

Analyzed: 07-Jun-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Compound ====================================	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	
1,1-Dichloroethane	ND	3 2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	53	1
Chlorobenzene	ND	$\overline{4}$
Ethylbenzene	ND	ĺ
Total Xylenes	ND	ī
1,3-Dichlorobenzene	ND	ī
1,4-Dichlorobenzene	ND	ī
1,2-Dichlorobenzene	ND	ī

ND-Not Detected. The limit of detection is reported above.

Will Control

LAW ENVIRONMENTAL, INC. Client:

12851 Job No:

Date

Analyzed: 07-Jun-89

Analysis: EPA 601/602 (8010/8020)

Sample: B-2 @40'

Matrix: Soil

1 gm Samp Amt: Dil Fact: 1

Analysis: EPA 601/602 (6010) 0010/	Concentration ug/Kg	Detection Limits
Compound Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride 1,1-Dichloroethylene 1,1-Dichloroethane trans-1,2-Dichloroethylene Trichlorofluoromethane Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1,1,2,2-Tetrachloroethane	Concentration ug/Kg ==================================	Limits ====================================
1,2-Dichloropropane trans-1,3-Dichloropropylene Trichloroethylene Dibromochloromethane 1,1,2-Trichloroethane Benzene cis-1,3-Dichloropropylene 2-Chloroethyl Vinyl Ether Bromoform Tetrachloroethylene Toluene Chlorobenzene Ethylbenzene Total Xylenes 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene	ND N	1.5 1.5 1.5 1.5 4 2.5 1.5 1 4 1

Sample: CB-1 @2.5

Job No: 12851

Date

Matrix: Soil

Analyzed: 07-Jun-89 Analysis: EPA 601/602 (8010/8020) Samp Amt: 1 gm Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits ==========
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	3	1.5
Toluene	14	1
Chlorobenzene	ND	4
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Job No: 12851

Matrix: Soil Date Samp Amt: Dil Fact: Analyzed: 07-Jun-89

Sample: CB-1 @6.5

1 gm

Analysis: EPA 601/602 (8010/8020)

	Compound	Concentration ug/Kg	Detection Limits ====================================
	Chloromethane	ND	5
	Bromomethane	ND	5
	Vinyl Chloride	ND	3
	Chloroethane	ND	5
	Methylene Chloride	ND	25
	1,1-Dichloroethylene	ND	3
	1,1-Dichloroethane	ND	2
	trans-1,2-Dichloroethylene	ND	1.5
	Trichlorofluoromethane	ND	2
	Chloroform	ND	1.5
	1,2-Dichloroethane	ND	2
	1,1,1-Trichloroethane	ND	1.5
	Carbon Tetrachloride	ND	1.5
	Bromodichloromethane	ND	1.5
	1,1,2,2-Tetrachloroethane	ND	1.5
	1,2-Dichloropropane	ND	1.5
	trans-1,3-Dichloropropylene	ND	1.5
	Trichloroethylene	ND	1.5
	Dibromochloromethane	ND	1.5
4	1,1,2-Trichloroethane	ND	1.5
	Benzene	ND	1
	cis-1,3-Dichloropropylene	ND	1.5
	2-Chloroethyl Vinyl Ether	ND	4
	Bromoform	ND	2.5
	Tetrachloroethylene	4	1.5
	Toluene	28	1
	Chlorobenzene	ND	4
	Ethylbenzene	ND	1
	Total Xylenes	ND	1
	1,3-Dichlorobenzene	ND	
	1,4-Dichlorobenzene	ND	1
	1,2-Dichlorobenzene	ND	1

Client: LAW ENVIRONMENTAL, INC. Job No: 12851

Date

Matrix: Soil Analyzed: 07-Jun-89

Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Sample: CB-2 @2.5'

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	4
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Sample: CB-2 @6.5'

Job No:

12851

Date

Analyzed: 07-Jun-89 Analysis: EPA 601/602 (8010/8020)

Soil Matrix:

Samp Amt: Dil Fact: 1 gm 1

Compound	Concentration ug/Kg	Detection Limits
======================================	========== ND	5
Chloromethane	ND	5
Bromomethane	ND	3
Vinyl Chloride	ND	5
Chloroethane	ND	25
Methylene Chloride	ND	3
1,1-Dichloroethylene	, ND	2
1,1-Dichloroethane	ND	1.5
trans-1,2-Dichloroethylene Trichlorofluoromethane	ND	2
	ND	1.5
Chloroform	ND	2
1,2-Dichloroethane	ND	1.5
1,1,1-Trichloroethane Carbon Tetrachloride	ND	1.5
	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1
Benzene	ND	1.5
cis-1,3-Dichloropropylene	ND	4
2-Chloroethyl Vinyl Ether	ND	2.5
Bromoform	טא 7	1.5
Tetrachloroethylene	1	1
Toluene	-	4
Chlorobenzene	ND	i
Ethylbenzene	ND	i
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	i
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	-

Sample: LAB BLANK

Job No:

12851

Date

Matrix: Soil

Analyzed: 07-Jun-89 Analysis: EPA 601/602 (8010/8020) Samp Amt: 1 gm Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits =========
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	. 3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1 .
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	4	1
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	1.5	1
1,4-Dichlorobenzene	1.5	1
1,2-Dichlorobenzene	2	1

LAW ENVIRONMENTAL, INC.

3420 N. San Fernando Blvd. Suite 200 Burbank, California 91504 (818) 648-0214

CHAIN OF CUSTODY RECORD

teb tog Number

KHIGCB FOL AB-1803 data PLEASE USE HSAITHER 7/15 low detection Remarks unrstigations Q.4/60 1 2961169 Analyses Required drog drog Conteiners Mumber of Project Number 58-9558 Sample Description ASSESS MEN Sampled by NHR 10 13-1 @ 15.0 -5 B-1 @ 20.0' 9 5.0' 5 6-1 @ 10.0' 8.10 %0. B-1 0 35 '. 8-1 @ 30' R4 0 25 Ø Project Hame NAWKer - Pacific Environments Ð 0 0 Ð 8-2 8-2 8-2 8-7 AN ENVIRMMENTAL - XX 20 Report Attention Sposs II:LEAM 8/80/87 8:55 AM 9:30 A.M q: 60A.M. 11:38 AM 10:15 A.M 11:30 M. 9:45 A.M 4:0 SA.M 10:00 A.M. 10:10 A.M. H:17A.M. Sempled Sampled Client Home Semple Number ? 6 ? ~ N

	Сопрылу		Dete	1 ine
Relinquished by A. M. H. M.	Low Company		5-31-87 23m	2.j.m
Marine J	Rali Espress		5.31-89 2pm	w/2
Relinquished by the Larance	4 - 41¢		5-31-89	7,2C/2H
Received by Amy Cichards	WCAS I	ln 1 2 8 5 1	5-31-89	5-31-89 5.10pm
Relinquished by				
Received by				

<u>Samples are discarded 30 days after results are reported, unless other arrangements are made.</u> Mazardous samples will be returned to client or disposed of at client expense. NOTE:

*AO - Aqueous; MA - Nonsqueous; St - Studge; GV - Ground Water; SO - Soil; PE - Petroleum; OI - Other

LAW ENVIRONMENTAL, INC.

3420 W. San Fernando Blvd. Suite 200 Burbank, California 91504 (818) 848-0214

RECORD CUSTODY 0 F CHAIN

Lab Log Number

Remarks Analyses Required Containers Number of M 8556-85 Project Number Sample Description Nauker - Pacific - Envisonmental Assessment 6.5 B-2 @ 35 6 2.5 B-2 @ 25 3.2 6 30 8 06.5 @ 2.S' Sempled by HHH 1-80 C.8-11 CB-2 c8-1 LAW ENVIRONMENTAL 8 Ype 3:35m 3:15pm 12:05pM. 5/39/27 11:40 A.M. 11:4¢ A.P. 1:30AM 4 VOQ. 7/ 7 ine Sampled H:SIAM. Report Attention Gross Sempled Date > Project Name, Client Name Sample Number 70 ķ **3**-<u>م</u> 7 2

Signature	Сатрепу	Σ.	0.00	E
Relinquished by Alifo Homen	Le Grown		m/x 13./8-5	7,7 m
Received by the Manne	Radi-Express		5-31-89 2 pm	7 9 2
Relinquished by A. Judus	7/ - 7		5-31-69	~1005.5 P3-18-2
Received by And	WCAS	No 12851	5.31-67	5.31-87 3.10pm
Received by				
and the state of the state and the state of the strangements are under	sevente are mede.			

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Samples are discarded 30 days after results are reported, unless other arrangements are Mazardous samples will be returned to client or disposed of at client expense. MOTE:

*Ap - Aqueous; NA - Nonequeous; St - Studge; GW - Ground Water; SO - Soil; PE - Petroleum; OI - Other

APPENDIX D

ANALYTICAL TEST RESULTS AND CHAIN-OF-CUSTODY OF SOIL SAMPLES

Tested by Regional Water Quality Control Board and California State Department of Health Services



To: Warren Gross

STATE OF CALIFORNIA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Los Angeles Region

107 South Broadway, Room 4027 Los Angeles, California 90012-4596

The enclosed material is forwarded in response to your recent request. We are pleased to be of service. If there are any further questions, please contact:

MILA SILVESTRE (213) 620-4930

30398-956 1-94 5M OSP

thern California Laboratory

Analysis Request Form

Name of Samp	ler: <u>M</u>	ila P. Silvestre	Pho	one No: (ATSS) 640 - 4930	
Sampler Empl R.W.Q.C.Boar	oyed By:	x [4 []6 []7 []8	[] 9	(213)-620-4930	
	_	wher Pacific Pol		`ons	
Date Collect	ed : <u>√/</u>	30/89 Analysis	Task No. <u>/</u>	OS-03 T2	
	[] Wa: ≱ So [] Otl	inking water : [] Ground ste water : Chlorinal lid sample : M Soil ner D. No. for each bottle.	ted: []] Surface water] Yes [] No] Sludge [] Sediment	
For Lab use	Bottle ID. No.		Time collected	Type of Analysis required (Be Specific)	
905-4841	B-1-10'	PSDS (D	9:00 AM	7	
905-4842	B-1-20'	PSDS (1)			
905-4843				All samples to be non-	for
905-4844	B-1-40'	PSDS O		O VOC'S - EPA 8240 (5-10 mg/kg detection	
905-4845	B-2-10'	PSDS @		limits)	n.
905-4846	8-2-20'	PSDS @		& Total Nitrogen	
905-4847	1			- Nitrates - Nitrites - Ammonia	
905-4848		PSDSQ	12:30 PM	- Organie Nr	
Warning or S	Special In	struction on Samples :	None - Nee	ed sampling tubes back	
Seals: 💢 Ir	itact []	None [] Broken		Date Time	
Samples Rel	inquished	by aprilitio		5/30/19 12: ST PM	
Samples Rel	Inquished			•	
Received for	r Lab by	m.Rel	Indiriale	5-30-89 1PM.	

(For Lab use only) Total cost for Lab analyses: \$ 2944

CALIFORNY TATE DEPARTMENT OF HEALTH TERVICES
SOUTHERN CALL NIA LABORATORY - SWOIS L D No. 5091

Laboratory Analytical Report

DATE REPORTED: 6-12-89

DATE RECEIVED: 5-30-89 SAMPLER: Mila Silvestre

			:	·			
Lab ID. Number	: CONSTITUENT		FPA METHOD	STORET: CODE	UNITS	•	REPORTING LIMIT
	- John Fracht					,	
	Ammonia-Nitrogen			(61 0)			0.5
	Nitrate-Nitrogen	(NO3-N)	:353.2	į ·	mg/Kg		<u> </u>
_, _	Nitrite-Nitrogen	(NO2-N)	:353.2	1	mazKo		0.3
-	Organic-Nitrogen		351.3	!	mg/Kg	5	10.5
905-4842	! !Ammonia-Nitrogen	(M-EHN)	! 350.2	: 1610	mg/Kg	7.2	0.5
	Nitrate-Nitrogen	(NO3-N)		! !	mg/Kg	1 7	12
	Nitrite-Nitrogen				ma/Ka	. N.D.	0.3
î.	Organic-Nitrogen		351.3	ĺ	ma∕ka	9	0.5
905-4843	 Ammonia-Nitrogen	(NH3-N)	! ! 350 - 2	610	mg/kg	6.6	. 0.5
J03 49 43	Nitrate-Nitrogen				mg/Kg		12
	Nitrite-Nitrogen		1	i .	mg/Kg		0.3
·, ·	Organic-Nitrogen	11.7	351.3		mg/Kg		0.5
905-4844	Ammonia-Nitrogen	(NH3-N)	350 2	610	mg/kg	9.3	 0.5
905-4644	Nitrate-Nitrogen			;	mg/Kg		2
	Nitrite-Nitrogen			:	mg/Kg	:	0.3
1.3	-	11402-147	351.3		mg/Kg		0.5
	Organic-Nitrogen		331.3	! !	mg/ kg	Ì	İ
905-4845	Ammonia-Nitrogen	(NH3-N)	350.2	610	mg/Kg	7.5	0.5
	Nitrate-Nitrogen			i i	mg/Ka	3.6	2
٨.	Nitrite-Nitrogen			İ	mg/kg	2.4	0.3
· -	Organic-Nitrogen	,	351.3	!!!	mg/kg	7.2	0.5
905-4846	: Ammonia-Nitrogen	(NH3-N)	! 350.2	610	mg/Kg	6.6	0.5
303 4040	Nitrate-Nitrogen				mg/Kg	1 4	2
•	Nitrite-Nitrogen				mg/Kg	N.D.	0.3
	Organic-Nitrogen		351.3		mg/Kg		ıù.5
005 - 4047	Ammonia-Nitrogen	(NH 2 - N)	250.2	610	mg/Kg	5.1	! :0.5
905-4847				1 :	mg/Kg mg/Kg		. 2
	Nitrate-Nitrogen			: :	mg/kg		0.3
•	Nitrite-Nitrogen	(NOZ-N)		1	mg/kg mg/kg	8.1	0.5
	Organic-Nitrogen 		351.3	}	mg/kg		10.3
					ma	1 10	.0.5
905-4848	Ammonia-Nitrogen			610	ma/ka		
1.0	Nitrate-Nitrogen			ļ	mg/kg		12
, , , ,	Nitrite-Nitrogen			!	mg/Kg		0.3
	Organic-Nitrogen		351.3	!	mq/K q	5.1	0.5
			İ	!		!	1

N.D. = None detected. mg/Kg= Milligram/Kilogram (ppm)

California S Department Of Health Services Southern Califor Laboratory - SWOIS Lab I 1. 5091 Volume Organic Chemicals

LAB SAMPLE ID NO.: 905-4841

DATE REPORTED : 6/4/89

SAMPLER:

All reporting units = 1/kg

N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 ppl-

METHOD USED: EPA 8240

page 1 of 2

CONSTITUENT	STORET CODE	ANALYSIS RESULTS
Acrolein	34210	NO
Acrylonitrile	34215	
Benzene	34030	
Bromodichloromethane	32101	
Bromoform	32104	
Bromomethane	34413	
Carbon tetrachloride	32102	
Chlorobenzene	34301	
Chloroethane	. 34311	
2-Chloroethylvinyl ether	34576	
Chloroform	32106	
Chloromethane	34418	
Dibromochloromethane	32105	
1,2-Dichlorobenzene	34536	
1,3-Dichlorobenzene	34566	
1,4-Dichlorobenzene	34571	
Dichlorodifluoromethane	34668	
1,1-Dichloroethane	34496	
1,2-Dichloroethane	34531	
1,1-Dichloroethylene	34501	
cis-1,2-Dichloroethylene	77093	
trans-1,2-Dichloroethylene	34546	
1,2-Dichloropropane	34541	·
cis-1,3-Dichloropropylene	34704	
trans-1,3-Dichloropropylene	34699	
Ethyl benzene	34371	
Ethylene dibromide	77651	
Methylene chloride	. 34423	
Methyl Ethyl Ketone	81595	
Methyl Isobutyl Ketone	81596	
Styrene	77128	/
1,1,2,2-Tetrachloroethane	34516	Ψ

California ate Department Of Health vices Southern California Laboratory - SWOIS Lab No. 5091

LAB SAMPLE ID NO.: 905-484/

DATE REPORTED : 6/6/89

SAMPLER:

All reporting units = 14/kg

N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 ppl-

METHOD USED : EPA 8240

page 2 of Z

		JE 2 01
CONSTITUENT	STORET CODE	ANALYSIS RESULTS
Tetrachloroethylene	34475	ND
Toluene	34010	15
1,1,1-Trichloroethane	34506	NO
1,1,2-Trichloroethane	34511	
Trichloroethylene	39180	
Trichlorofluoromethane	34488	
Vinyl chloride	39175	
m,p-Xylenes		, ,
o-Xylene		$\overline{}$
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California ate Department Of Health Southern Calif ia Laboratory - SWOIS Lab Volatile Organic Chemicals vices No. 5091

LAB SAMPLE ID NO.: 905-4542

DATE REPORTED : 6/6/89

All reporting units = " / fig

SAMPLER:

N.D. = None detected Estimated Detection Limit For All Constituents = 5.0 ///6-

METHOD USED: EPA 8240

page 1 of 2

	Pu	36 I OI
CONSTITUENT	STORET CODE	ANALYSIS RESULTS
Acrolein	34210	NO
Acrylonitrile	34215	
Benzene	34030	
Bromodichloromethane	32101	
Bromoform	32104	
Bromomethane	34413	
Carbon tetrachloride	32102	
Chlorobenzene	34301	
Chloroethane	34311	
2-Chloroethylvinyl ether	34576	
Chloroform	32106	
Chloromethane	34418	
Dibromochloromethane	32105	
1,2-Dichlorobenzene	34536	
1,3-Dichlorobenzene	34566	
1,4-Dichlorobenzene	34571	
Dichlorodifluoromethane	34668	
1,1-Dichloroethane	34496	·
1,2-Dichloroethane	34531	
1,1-Dichloroethylene	34501	
cis-1,2-Dichloroethylene	77093	
trans-1,2-Dichloroethylene	34546	
1,2-Dichloropropane	34541	
cis-1,3-Dichloropropylene	34704	
trans-1,3-Dichloropropylene	34699	
Ethyl benzene	34371	
Ethylene dibromide	77651	
Methylene chloride	34423	
Methyl Ethyl Ketone	81595	
Methyl Isobutyl Ketone	81596	
Styrene .	77128	
1,1,2,2-Tetrachloroethane	34516	$\overline{}$
	T	I

California ate Department Of Health vices Southern California Laboratory - SWOIS Lab No. 5091 Volatile Organic Chemicals

LAB SAMPLE ID NO.: 905-4842

DATE REPORTED : 6/6/89

SAMPLER:

All reporting units = up/kg

N.D. = None detected

Estimated Detection Limit For All Constituents = 5-0 ppl

METHOD USED : EPA 8240

METHOD USED : EPA 8240	pag	page 2 of 2		
CONSTITUENT	STORET CODE	ANALYSIS RESULTS		
Tetrachloroethylene	34475	۵۸		
Toluene	34010	18		
1,1,1-Trichloroethane	34506	NO		
1,1,2-Trichloroethane	34511			
Trichloroethylene	39180			
Trichlorofluoromethane	34488			
Vinyl chloride	39175			
m,p-Xylenes				
o-Xylene				
		V		
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California Te Department Of Health S ces Southern Califo Laboratory - SWOIS Lab co. 5091

LAB SAMPLE ID NO.: 905-4843

DATE REPORTED : 6/6/89

SAMPLER:

All reporting units = 14/69

N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 pm

METHOD USED : EPA 8240

page 1 of 2

CONSTITUENT	STORET CODE	ANALYSIS RESULTS
Acrolein	34210	NO.
Acrylonitrile	34215	<i>NO.</i>
Benzene	34030	
Bromodichloromethane	32101	
Bromoform	32104	
Bromomethane	34413	
Carbon tetrachloride	32102	
Chlorobenzene	34301	
Chloroethane	34311	
2-Chloroethylvinyl ether	34576	
Chloroform	32106	
Chloromethane	34418	
Dibromochloromethane	32105	
1,2-Dichlorobenzene	34536	
1,3-Dichlorobenzene	34566	
1,4-Dichlorobenzene	34571	
Dichlorodifluoromethane	34668	
1,1-Dichloroethane	34496	
1,2-Dichloroethane	34531	
1,1-Dichloroethylene	34501	
cis-1,2-Dichloroethylene	77093	
trans-1,2-Dichloroethylene	34546	
1,2-Dichloropropane	34541	
cis-1,3-Dichloropropylene	34704	
trans-1,3-Dichloropropylene	34699	
Ethyl benzene	34371	
Ethylene dibromide	77651	
Methylene chloride	34423	
Methyl Ethyl Ketone	81595	
Methyl Isobutyl Ketone	81596	
Styrene	77128	
1,1,2,2-Tetrachloroethane	34516	- V. - I

Californi ate Department Of Health vices Southern Cali nia Laboratory - SWOIS La No. 5091 Volatile Organic Chemicals

LAB SAMPLE ID NO.: 905-4843

DATE REPORTED : 6/4/89

SAMPLER:

All reporting units = my/la

N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 Pol-

METHOD USED: EPA 8240

page 2 of 2

Marine Colle . Hir 5240		Je 2 OL
CONSTITUENT	STORET CODE	ANALYSIS RESULTS
Tetrachloroethylene	34475	NB
Toluene	34010	16
1,1,1-Trichloroethane	34506	NO
1,1,2-Trichloroethane	34511	
Trichloroethylene	39180	
Trichlorofluoromethane	34488	
Vinyl chloride	39175	
m,p-Xylenes		
o-Xylene		
		V
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California ate Department Of Health vices southern Cali ia Laboratory - SwOIS Lat No. 5091

LAB SAMPLE ID NO.: 905-4844

DATE REPORTED : 6/6/59

SAMPLER:

All reporting units = 19/19

N.D. = None detected

Estimated Detection Limit For All Constituents = 510 ppl-

METHOD USED : EPA 8240

page 1 of 2

CONSTITUENT	STORET	ANALYSTS
	CODE	ANALYSIS RESULTS
Acrolein	34210	NO
Acrylonitrile	34215	
Benzene	34030	
Bromodichloromethane	32101	
Bromoform	32104	
Bromomethane	34413	
Carbon tetrachloride	32102	
Chlorobenzene	34301	
Chloroethane	34311	
2-Chloroethylvinyl ether	34576	
Chloroform	32106	
Chloromethane	34418	
Dibromochloromethane	32105	
1,2-Dichlorobenzene	34536	
1,3-Dichlorobenzene	34566	
1,4-Dichlorobenzene	34571	
Dichlorodifluoromethane	34668	
1,1-Dichloroethane	34496	
1,2-Dichloroethane	34531	
1,1-Dichloroethylene	34501	
cis-1,2-Dichloroethylene	77093	
trans-1,2-Dichloroethylene	34546	
1,2-Dichloropropane	34541	
cis-1,3-Dichloropropylene	34704	
trans-1,3-Dichloropropylene	34699	
Ethyl benzene	34371	
Ethylene dibromide	77651	
Methylene chloride	34423	
Methyl Ethyl Ketone	81595	
Methyl Isobutyl Ketone	81596	
Styrene	77128	
1,1,2,2-Tetrachloroethane	34516	─

California e Department Of Health Se ces Southern Califoi Laboratory - SWOIS Lab o. 5091 Volutile Organic Chemicals

LAB SAMPLE ID NO.: 905-4844

DATE REPORTED : 4/4/59

SAMPLER:

All reporting units = 47/kg

N.D. = None detected

Estimated Detection Limit For All Constituents = 5,0 ppl

METHOD USED: EPA 8240 page 2 of 2

METHOD USED: EPA 8240	page 2 of _ Z	
CONSTITUENT	STORET CODE	ANALYSIS RESULTS
Tetrachloroethylene	34475	NO
Toluene	34010	5.0
1,1,1-Trichloroethane	34506	טא
1,1,2-Trichloroethane	34511	
Trichloroethylene	39180	
Trichlorofluoromethane	34488	
Vinyl chloride	39175	
m,p-Xylenes		/
o-Xylene		ν
-		

California te Department Of Health S ices Southern Califo a Laboratory - SWOIS Lab No. 5091 Volatile Organic Chemicals

LAB SAMPLE ID NO .: 905 - 4845

DATE REPORTED : 6/6/89

SAMPLER:

All reporting units = my/hy

N.D. = None detected

Estimated Detection Limit For All Constituents = 5,0 ppl

METHOD USED : EPA 8240

page 1 of Z

CONSTITUENT	STORET CODE	ANALYSIS RESULTS
Acrolein	34210	~0
Acrylonitrile	34215	
Benzene	34030	
Bromodichloromethane	32101	
Bromoform	32104	
Bromomethane	34413	
Carbon tetrachloride	32102	
Chlorobenzene	34301	
Chloroethane	34311	
2-Chloroethylvinyl ether	34576	
Chloroform	32106	-
Chloromethane	34418	
Dibromochloromethane	32105	
1,2-Dichlorobenzene	34536	
1,3-Dichlorobenzene	34566	
1,4-Dichlorobenzene	34571	
Dichlorodifluoromethane	34668	
1,1-Dichloroethane	34496	
1,2-Dichloroethane	34531	
1,1-Dichloroethylene	34501	
cis-1,2-Dichloroethylene	77093	
trans-1,2-Dichloroethylene	34546	
1,2-Dichloropropane	34541	
cis-1,3-Dichloropropylene	34704	
trans-1,3-Dichloropropylene	34699	
Ethyl benzene	34371	
Ethylene dibromide	77651	
Methylene chloride	34423	
Methyl Ethyl Ketone	81595	
Methyl Isobutyl Ketone	81596	
Styrene	77128	1
1,1,2,2-Tetrachloroethane	34516	V

LAB SAMPLE ID NO.: __905-4845

DATE REPORTED : 4/4/89

SAMPLER:

All reporting units = 19/19 N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 ppl

METHOD USED : EPA 8240

page 2 of 2

HEILOU GOLD . HIA GEGO		Je 2 UI
CONSTITUENT	STORET CODE	ANALYSIS RESULTS
Tetrachloroethylene	34475	NO
Toluene	34010	/3
1,1,1-Trichloroethane	34506	NO
1,1,2-Trichloroethane	34511	
Trichloroethylene	39180	
Trichlorofluoromethane	34488	
Vinyl chloride	39175	
m,p-Xylenes		
o-Xylene		V
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Southern Califo a Laboratory - SWOIS Lab No. 5091

LAB SAMPLE ID NO.: 905-4886

DATE REPORTED: 4/4/89

SAMPLER:

All reporting units = ug/bg

N.D. = None detected Estimated Detection Limit For All Constituents = 5.0 ppl

METHOD USED : EPA 8240

page 1 of 2

CONSTITUENT	page 1 or	
	STORET CODE	ANALYSIS RESULTS
Acrolein	34210	NO
Acrylonitrile	34215	7.00
Benzene	34030	
Bromodichloromethane	32101	
Bromoform	32104	
Bromomethane	34413	
Carbon tetrachloride	32102	
Chlorobenzene	34301	
Chloroethane	34311	
2-Chloroethylvinyl ether	34576	
Chloroform	32106	
Chloromethane	34418	
Dibromochloromethane	32105	
1,2-Dichlorobenzene	34536	
1,3-Dichlorobenzene	34566	
1,4-Dichlorobenzene	34571	
Dichlorodifluoromethane	34668	
1,1-Dichloroethane	34496	
1,2-Dichloroethane		
1,1-Dichloroethylene	34531	
cis-1,2-Dichloroethylene		
trans-1,2-Dichloroethylene	77093	
1,2-Dichloropropane	34546	
cis-1,3-Dichloropropylene	34541	
trans-1,3-Dichloropropylene	34704	
Ethyl benzene	34699	
Ethylene dibromide	34371	
Methylene chloride	77651	
Methyl Ethyl Ketone	34423	
Methyl Isobutyl Ketone	81595	
Styrene	81596	
1,1,2,2-Tetrachloroethane	77128	
,	34516	V

California State Department Of Health Services
Southern Califo 1 Laboratory - SWOIS Lab Vo. 5091
cile Organic Chemicals

LAB SAMPLE ID NO .: 905-4846

DATE REPORTED : 6/6/89

SAMPLER:

All reporting units = my/by

N.D. = None detected

Estimated Detection Limit For All Constituents = 5.0 Mb

METHOD USED : EPA 8240

page 2 of Z

1	CONSTITUENT	STORET CODE	ANALYSIS RESULTS
-	Tetrachloroethylene	34475	NB
1	Toluene	34010	10
_	1,1,1-Trichloroethane	34506	ND
1	1,1,2-Trichloroethane	34511	
	Trichloroethylene	39180	
	Trichlorofluoromethane	34488	
	Vinyl chloride	39175	
	m,p-Xylenes		,
į	o-Xylene		V
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3320 N. SAN FERNANDO BLVD. BURBANK, CALIFORNIA 9150 4 TEL. (818) 848-0214 FAX (818) 848-1674

January 11, 1990

Hawker Pacific, Inc. 11310 Sherman Way Sun Valley, CA 91352

Project No. 58-9661 RWQCB File No. AB104.0436

Attention: Mr. Erik Johnson

Hazardous Waste Engineer

Gentlemen:

Our "Report of Additional Subsurface Investigation, Private Sewage Disposal System and Industrial Waste Clarifier, 11310 Sherman Way, Sun Valley, California, for Hawker Pacific, Incorporated," is herewith submitted. This investigation was authorized by approval of our proposal for Project No. 58-9661, dated October 23, 1989, in response to the Regional Water Quality Control Board's requirement of additional subsurface investigation of the subject property.

Following your review of the attached report, one copy should be submitted to the RWQCB. Law Environmental appreciates the opportunity to provide our services for this project. Should you have any questions regarding our report, please do not hesitate to call our office.

Respectfully submitted,

LAW ENVIRONMENTAL, INC.

While It. Homans

Michael H. Hernandez

Staff Environmental Geologist

aven al stross

Warren W. Gross

Staff Hydrogeologist

Glenn A. Brown, C.E.G. 3 Senior Vice President

Glenn & Brown

MHH/ks/9661.RPT (4 Copies Submitted)



REPORT OF ADDITIONAL SUBSURFACE INVESTIGATION PRIVATE SEWAGE DISPOSAL SYSTEM AND INDUSTRIAL WASTE CLARIFIER FOR HAWKER PACIFIC, INC. 11310 SHERMAN WAY SUN VALLEY, CALIFORNIA

INTRODUCTION

This subsurface investigation was performed for Hawker Pacific, Inc. in order to comply with the requirements of the Regional Water Quality Control Board (RWQCB) as stated in their letter dated September 13, 1989 (Appendix A). Law Environmental's final Work Plan for the investigation was submitted to the RWQCB and subsequently approved by the Board in their letter dated November 17, 1989 (Appendix A).

Law Environmental has previously completed two subsurface investigations on the subject property for Hawker Pacific. The results of these investigations are included in our reports dated January 4, 1989 for Project No. 58-8601, and August 10, 1989 for Project No. 58-9558.

Our professional services have been performed using that degree of care and skill customarily exercised under similar circumstances by reputable environmental professionals practicing in this or equivalent localities. No other warranty, expressed or implied, is made as to the information or professional advice included in

this report. This report has been prepared expressly for Hawker Pacific, Inc. and is directed towards complying with their specific needs. This report has not been prepared for use by other parties and may not contain sufficient information for other parties or other uses. Any other use, interpretation or emphasis, other than that contained herein, is done at the reader's own risk.

All findings and conclusions derived from measurements or analyses of soil, water, air and soil gas are based on the conditions which existed only at those particular sample locations and the times of sampling. They are constrained by detection limits, equipment, and the specific analytical methods used.

PURPOSE

The purpose of this investigation was to determine if subsurface soils on the subject property have been contaminated by the leakage of selected organic and/or inorganic contaminants from the private sewage disposal systems (PSDS) or the industrial waste clarifier and, if so, to what extent area ground water may be threatened.

SCOPE OF INVESTIGATION

Two 80 foot soil borings were drilled adjacent to two private sewage disposal systems. One additional boring, terminated at a depth of 40 feet, was drilled at the location of the industrial



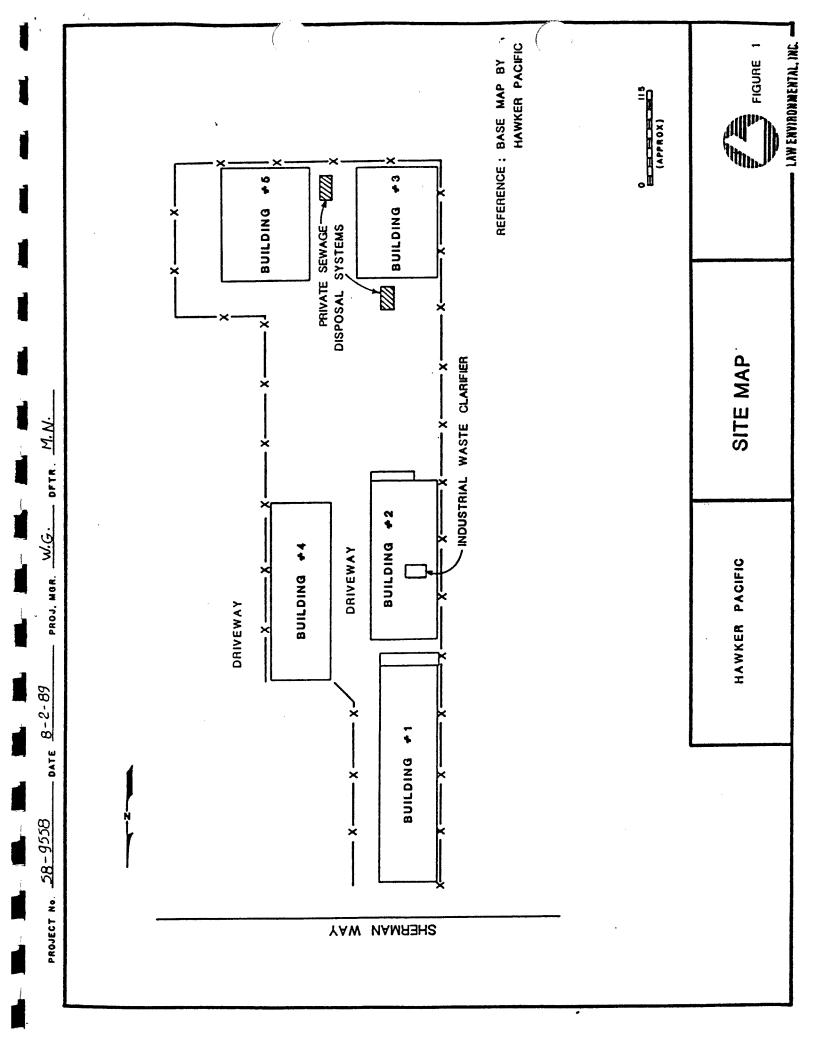
waste clarifier in Building 2 (Figure 1). Undisturbed soil samples were collected from the borings and submitted to a State-certified analytical laboratory, West Coast Analytical Service, Inc., for testing in accordance with RWQCB requirements. At the time of drilling, a RWQCB inspector was present to approve the boring locations, to observe the soil sampling protocol, and to collect split samples at selected depths in Borings CB-1D and 2D. The locations of pertinent features are shown on Figure 1, Site Map, and the site details in Figures 2 and 3.

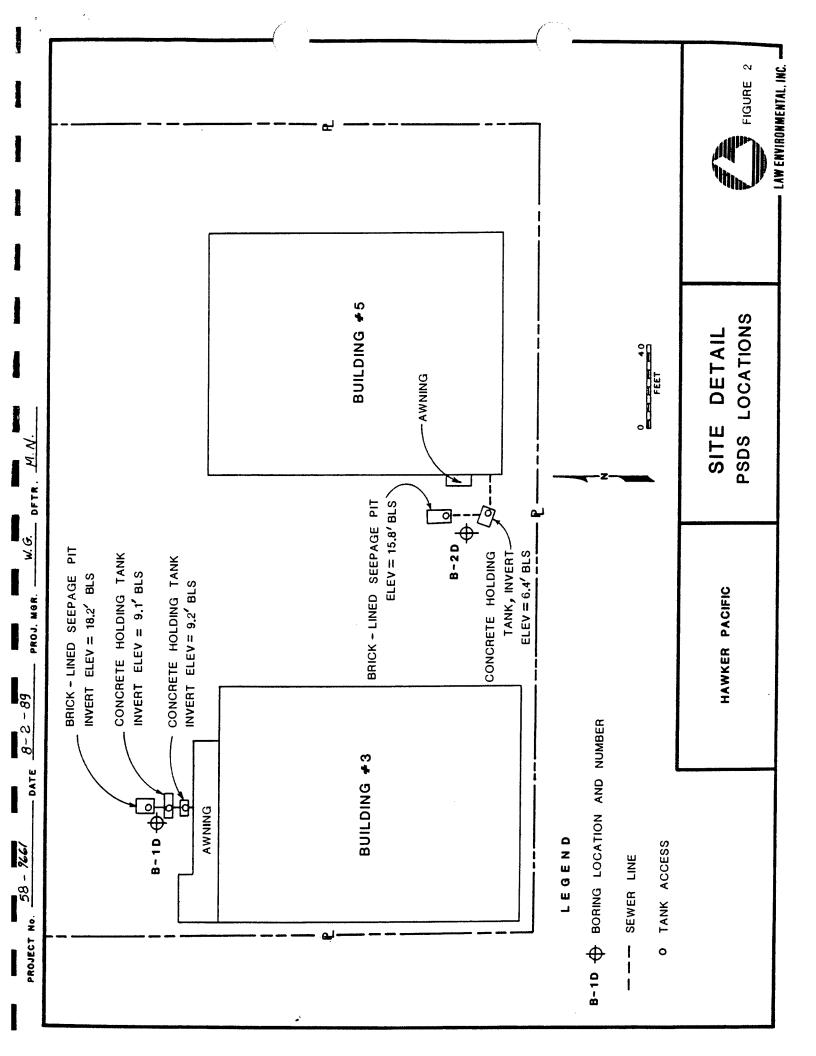
SUBSURFACE INVESTIGATIVE METHODS

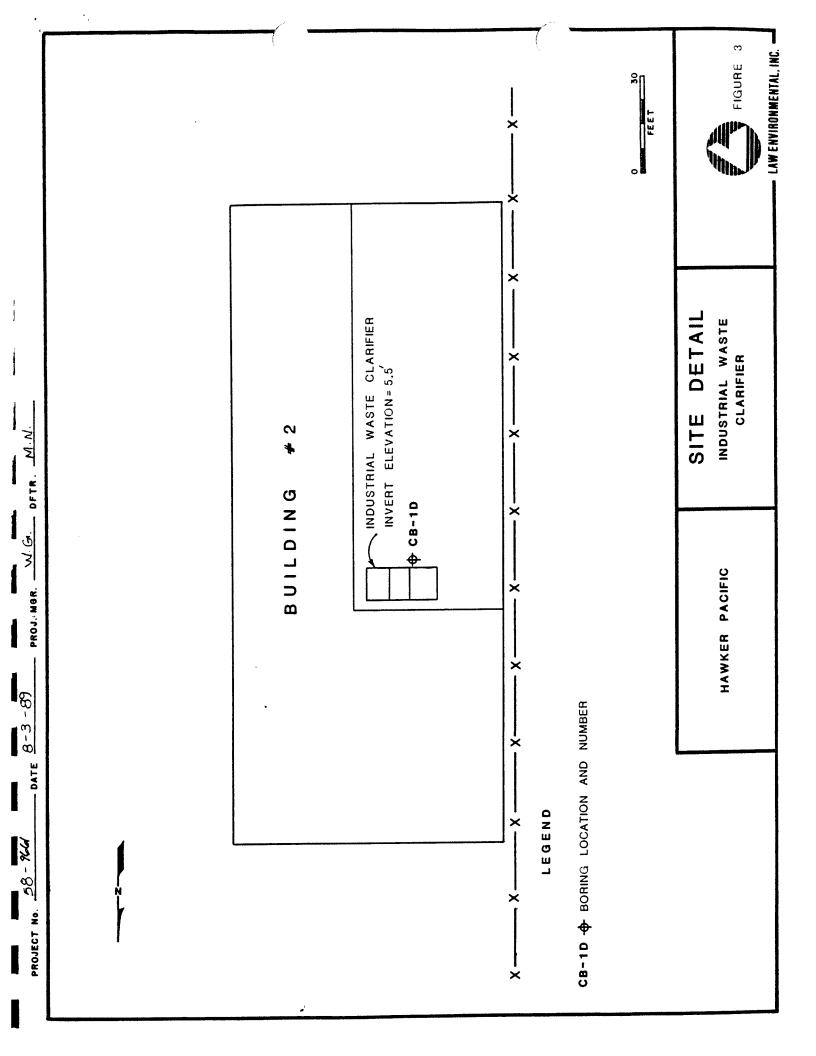
Drilling and Sampling

Private Sewage Disposal System

All field work was conducted on December 7, 1989. One soil boring was drilled at each of the two PSDS locations. These boring locations were the same as those selected for the borings of our previous investigation. The borings were designated as B-1D and B-2D. Each boring was completed to a depth of 80 feet at the locations shown on Figure 2, Site Detail, PSDS Locations. Soil samples were collected from the borings at five foot intervals, beginning at a depth of 45 feet. A truck mounted hollow stem auger drilling rig was employed for the borings. Soil samples were obtained according to procedures outlined in Appendix B, Soil







Sampling Protocol. The sampling equipment was thoroughly washed and rinsed before each use. All augers were steam cleaned prior to use. The soil samples were obtained by driving a split-spoon California sampler into the soil ahead of the augers. A soil sample from each sample interval was screened using an organic vapor analyzer (a Foxboro OVA 108GC) to quantify organic vapor concentrations above a soil sample contained in a plastic sample bag. Samples were retained in brass tubes and capped with Teflon® liners and tight-fitting plastic lids secured with vinyl tape. The samples were labeled and placed in an iced cooler.

Borings CB-1D and CB-2D were not logged from 0 to 40 feet in this investigation. The boring logs from our previous investigation in which those intervals were logged are included in Appendix C.

The soil samples were delivered to West Coast Analytical Services in Santa Fe Springs, a State certified hazardous materials testing facility. Samples collected at 50, 60, 70 and 80 foot depths were submitted for analyses of volatile organic compounds (EPA Methods 8010/8020).

Industrial Waste Clarifier

One soil boring was drilled adjacent to the industrial waste clarifier at the location shown on Figure 3, Site Detail, Industrial Waste Clarifier. The boring was within two feet of the

clarifier at the same location as Boring CB-1 of our previous investigation. A cart mounted hollow stem auger drilling rig was employed for the borings. Soil samples were collected at five-foot intervals beginning at a depth of 10 feet. The sampling equipment was thoroughly washed and rinsed before each use. All augers were steam cleaned prior to use. Samples were obtained by driving a split-spoon California sampler into the soil to collect an undisturbed sample. A soil sample from each sample interval was screened using an organic vapor analyzer in the same manner as for the PSDS borings. All samples were secured and preserved using methods similar to those previously cited for the PSDS borings (see Appendix B). The soil samples were delivered to West Coast Analytical Services, Inc., where they were analyzed for volatile organic compounds (EPA Method 8010/8020).

FINDINGS

Private Sewage Disposal System

Alluvial soils were encountered in the PSDS borings, consisting of medium to coarse-grained sand and gravel with some cobbles. No soil staining, hydrocarbon odors, or elevated OVA readings were noted. Boring logs are included in Appendix C.

Free ground water was not encountered in either of the borings.
Recent water levels in the area are reported to be approximately



219 feet below ground surface, according to the Los Angeles County Flood Control District (L.A.C.F.C.D. Well No. 3820B, measured in April, 1989).

Laboratory analysis of the soil samples collected from Boring B-1D and B-2D, adjacent to the two PSDS systems, did not indicate the presence of volatile organic compounds in the soil from a depth of 50 feet down to a depth of 80 feet. Analytical data for the two PSDS borings are contained in Appendix D.

Industrial Waste Clarifier

Two feet of silty sand fill were found to overlie alluvial soils consisting of medium to coarse-grained sands with gravel and some cobbles. No soil staining, hydrocarbon odors or elevated OVA readings were observed. The boring log is included in Appendix C.

In Boring CB-1D, adjacent to the waste clarifier, toluene was found to be present in one soil sample. Toluene was detected at 4.2 $\mu g/kg$ in the soil sample recovered from a depth of 35 feet; however, analysis of the laboratory blank samples detected the presence of toluene in all three blank samples at concentrations up to 2 $\mu g/kg$ (Appendix D). No other volatile organic compounds were detected in any of the samples collected from the industrial waste clarifier boring.



CONCLUSIONS AND RECOMMENDATIONS

Private Sewage Disposal System Locations

Based on the results of this subsurface investigation, it appears that the traces of toluene detected during the initial investigation do not extend into the deeper soil underlying the PSDS locations. Data from Law Environmental's initial subsurface investigation demonstrated that concentrations of toluene in the soil decreased fairly regularly with depth, extending down to 40 feet below ground surface. Data from the current investigation indicate that no toluene above laboratory detection limits are present in the soil samples from 50 to 80 feet below ground surface.

In view of recent ground water levels in the area of the site of approximately 219 feet below ground surface, and based on the results of this limited investigation, the two PSDS locations do not appear to pose a threat to the ground water beneath the site. We recommend no further investigation for the PSDS areas.

Industrial Waste Clarifier

Based on the results of our investigation, it appears that the traces of toluene and tetrachloroethene (PCE) detected during the earlier investigation do not extend into the deeper soil beneath



the industrial waste clarifier in significant concentrations. Data from this investigation shows that no traces of PCE were encountered above laboratory detection limits in any of the soil samples recovered from depths of 10 to 40 feet in Boring CB-1D.

Toluene, at a concentration of 4.2 μ g/kg was encountered in one soil sample recovered from a depth of 35 feet. State action levels for toluene in drinking water are recognized as 100 mg/kg. No other volatiles were detected in any other soil samples taken from Boring CB-1D.

Based on our findings in this limited investigation and the reported depth to ground water in the area, we recommend no further investigation of the industrial waste clarifier.

APPENDIX A

CORRESPONDENCE FROM THE REGIONAL WATER QUALITY CONTROL BOARD

LAW ENVIRONMENTAL WORK PLAN (Appendices not included)

THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—LOS ANGELES REGION

101 Centre Plaza Drive Monterey Park, California 91754-2156 (213) 266-7500

November 17, 1989

Mr. Erik Johnson HAWKER PACIFIC, INC. 11310 Sherman Way Sun Valley, CA 91352

SITE ASSESSMENT WORKPLAN - AB1803 WELL INVESTIGATION PROGRAM (FILE NO. AB104.0020)

We are in receipt of your consultant's, Law Environmental, Inc., report dated November 14, 1989, containing the site assessment workplan for your facility.

11.

NOV 2 1 1989

We have reviewed the workplan and have no objections to its implementation, provided that all work is completed as specified in the proposal. The final locations of the soil test borings will be verified in the field on the day of drilling.

Please notify us at least one week prior to the date you plan to commence work at your facility so we can schedule an inspector to be present. The final report containing the results of the site assessment is due to this Regional Board by January 18, 1990.

If you have any questions, please contact Ms. Mila Silvestre at (213) 266-7529.

David a Backnowski

DAVID A. BACHAROWSKI Environmental Specialist IV

cc: V Mr. Warren Gross, Law Environmental, Inc.



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—LOS ANGELES REGION

101 Centre Plaza Drive Monterey Park, California 91754-2156 (213) 266-7500

September 13, 1989

Mr. Erik Johnson HAWKER PACIFIC, INC. 11310 Sherman Way Sun Valley, CA 91352

SUBSURFACE INVESTIGATION - AB1803 WELL INVESTIGATION PROGRAM (FILE NO. AB104.0436)

Reference is made to your consultant's, Law Environmental, Inc., report dated August 10, 1989, containing the results of the subsurface investigation completed in the private sewage disposal system (PSDS) locations and in the industrial waste clarifier area at your facility.

We have reviewed and evaluated the information contained in the report, which has identified the presence of Toluene consistently with depth down to 40 feet below ground surface in the two PSDS locations. Further, Perchloroethylene and Toluene were identified to be present down to 6.5 feet below ground surface in the industrial waste clarifier area.

In order to further define the vertical extent of contamination beneath the areas of concern, you are required to develop a Site Assessment Workplan that includes the following:

- 1. A minimum of one (1) soil test boring to a depth of 80 ft below land surface in each of the two PSDS locations. Soil samples shall be taken at every 5-ft interval starting at 45 ft below land surface.
- 2. A minimum of one (1) soil test boring to a depth of 40 ft below land surface in the industrial waste clarifier area. Soil samples shall be taken at every 5-foot interval starting at 10 ft below land surface.
- 3. All soil samples shall be analyzed for Volatile Organic Compounds by EPA Method 8240 or EPA Methods 8010 & 8020.

Your Site Assessment Workplan containing all of the items identified above is due to this Regional Board by October 13, 1989. If you have any questions concerning this matter, please contact Mila P. Silvestre at (213) 266-7529.

DAVID A. BACHAROWSKI

Environmental Specialist IV

Mr. Erik Johnson Page 2

cc: Alisa Greene, U.S. EPA Region IX Bill Jones, L. A. County, Dept. of Health Services
Warren Gross, Law Environmental, Inc.
Public Aliwalas, City of L. A., Bureau of Sanitation



3320 N. SAN FERNANDO BLVD. BURBANK, CALIFORNIA 91504 TEL. (818) 848-0214 FAX (818) 848-1674

November 14, 1989

Hawker Pacific, Inc. 11310 Sherman Way Sun Valley, California 91352

Project No. 58-9661 RWQCB File No. AB104.0436

Attention: Mr. Erik Johnson

Hazardous Waste Engineer

Gentlemen:

WORK PLAN
Additional Soil Borings
Hawker Pacific, Inc.
11310 Sherman Way
Sun Valley, California

INTRODUCTION

Law Environmental, Inc. is pleased to submit this work plan to perform additional subsurface investigations at the This investigation was required by the referenced property. Regional Water Quality Control Board (RWQCB) in their September 13, 1989 letter to Mr. Erik Johnson (RWQCB File No. AB104.0436) attached as Appendix c. This work plan addresses all elements of the required investigation. The results of previous subsurface investigation of the subject property by Law Environmental are contained in our report No. 58-8601, dated January 4, 1989 and our report No. 58-9558 dated August 10, 1989. The latter report detailed our finding of toluene in soils adjacent to the private

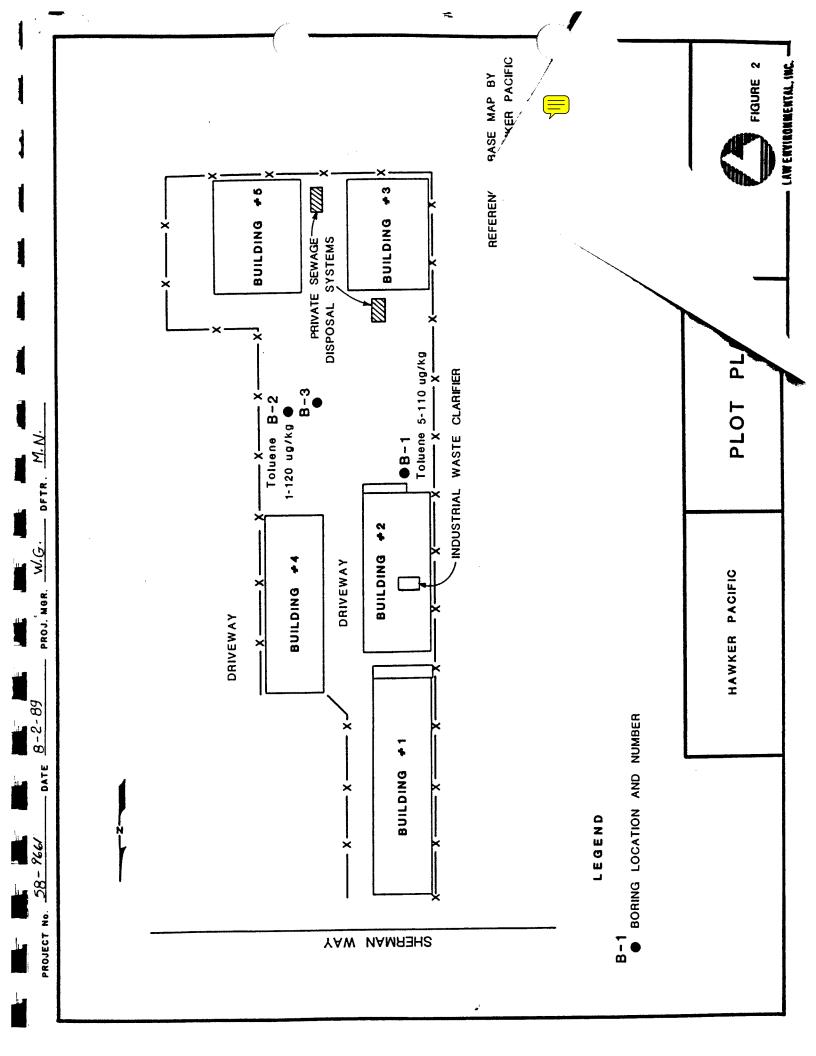


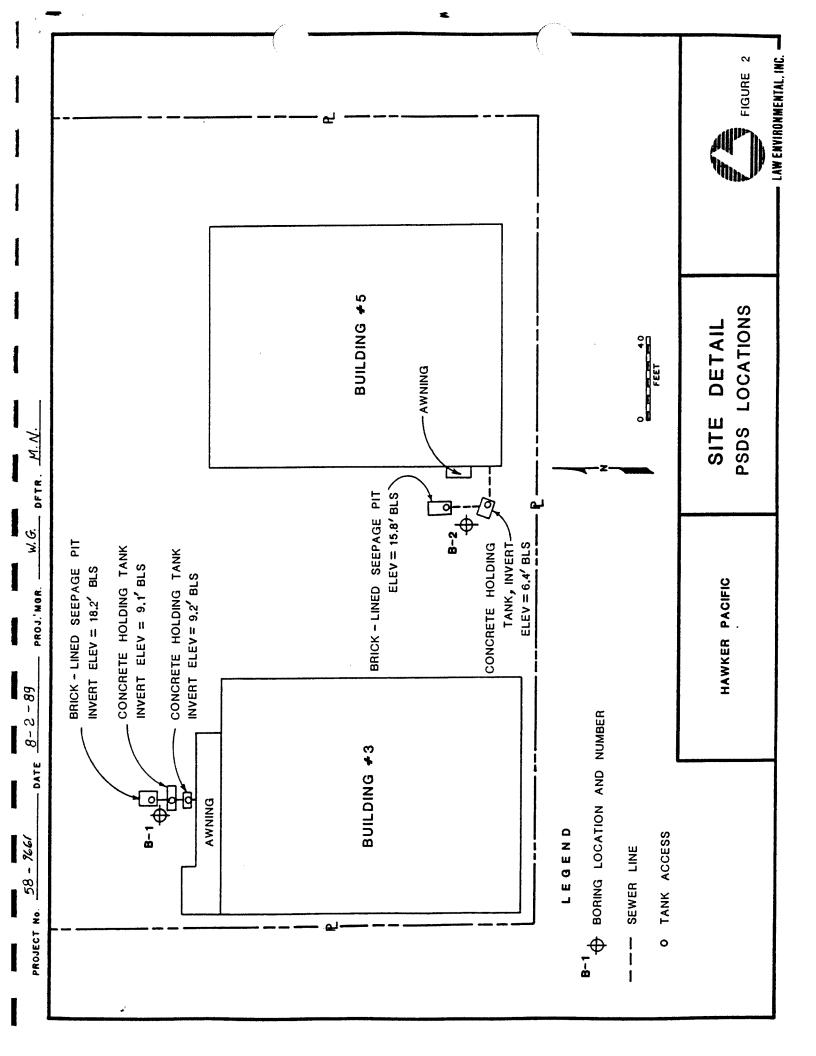
sewage disposal system (PSDS) installations at depths up to 40 feet (see Figures 1 and 2). Maximum concentrations of toluene, 110 and 120 μ g/kg were reported at the 10-foot depth, with concentrations declining to values of 11 and 53 μ g/kg at a depth of 40 feet. In addition, soil samples from shallow (6.5 feet) borings adjacent to the industrial waste clarifier were found to contain up to 28 μ g/kg toluene and up to 4 μ g/kg tetrachloroethylene (PCE) (see Figures 1 and 3).

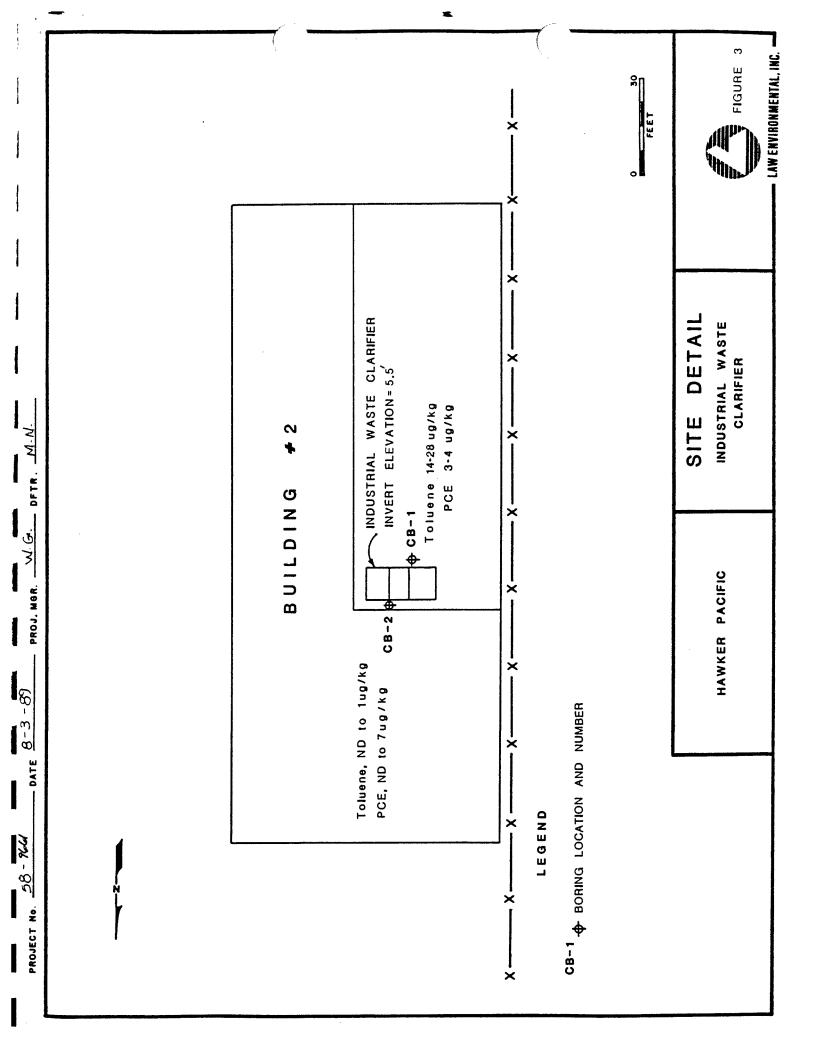
The investigations presently required by the RWQCB include additional soil borings at the location of the PSDS and adjacent to the industrial waste clarifier in Building 2, with soil sampling to depths of 80 and 40 feet respectively.

HEALTH AND SAFETY PLAN

Law Environmental has prepared a site-specific health and safety plan for this investigation in accordance with RWQCB requirements. The plan is included in Appendix B. All field personnel will be required to sign on page 5 indicating that they have read, understand, and will comply with the requirements of the health and safety plan.









PROPOSED SOIL SAMPLING AND ANALYSIS PROGRAM

PSDS

The location of each PSDS is indicated on Figure 1, Site Map. Environmental will observe the drilling by a qualified drilling contractor, of one boring to a depth of 80 feet (or to auger refusal, whichever is first) at the location of each PSDS. borings will be located as close as practical to our previous borings in these areas. Drilling will be accomplished by the hollow-stem auger method. Steam-cleaned augers will be used. Undisturbed soil samples will be collected at 5-foot intervals in each boring, unless precluded by cobble zones or unanticipated conditions. Soil samples from the 50, 60, 70 and 80-foot depths of each boring will be analyzed for selected volatile organic compounds by EPA Methods 8010 and 8020. Soil samples will not be tested for any additional parameters unless specifically requested by the client in writing. All RWQCB QA/QC requirements and detection limits will be specified. All soil samples will be monitored for the presence of volatile organic compounds using a portable organic vapor detector. Soil samples from depths other than those specified above which yield significant vapor readings will also be submitted for laboratory analysis. The borings will be logged and samples collected in accordance with the procedures specified in Appendix A, Soil Sampling Protocol.



INDUSTRIAL WASTE CLARIFIER

One soil boring will be drilled adjacent to the clarifier at the location of our previous boring, CB-1, as shown on Figure 3. We will attempt to collect undisturbed soil samples at depths of 5, 10, 15, 20, 25, 30, 35 and 40 feet, as requested by the RWQCB. These samples will be analyzed for selected volatile organic compounds by EPA Methods 8010 and 8020.

Due to the limited access adjacent to the clarifier, we will utilize a hollow-stem auger drilling rig specially designed for indoor use. Soil samples will be collected in accordance with the procedure specified in Appendix A.

REPORTING

Following receipt of the results of laboratory analyses we will submit a report of our findings and recommendations. The report will include all boring locations, boring logs, and laboratory reports.



If you have any questions regarding this work plan, please contact the undersigned. We will begin implementation of this work plan following your receipt of written approval from the RWQCB. We estimate that our report can be submitted within eight weeks of work plan approval.

Sincerely,

LAW ENVIRONMENTAL, INC.

Warren W. Gross Staff Environmental Geologist

Garabet H. Kassakhian, A.M., Ph.D. Manager Special Projects Senior Environmental Scientist

Glenn A. Brown, C.E.G. 3 Senior Vice President

WWG/pr/9661WP.RPT
(3 copies submitted)

APPENDIX B SOIL SAMPLING PROTOCOL

Page B-1

SOIL SAMPLING PROTOCOL

The following procedures are followed when sampling soil with the hollow-stem auger drilling technique.

- 1. Continuous flight, hollow-stem augers are used.
- 2. All augers, samplers and downhole equipment are steam cleaned prior to use and between borings. This minimizes the possibility of cross-contamination occurring.
- 3. A registered geologist or other appropriately trained personnel observes the drilling, visually logs the soils, and obtains soil samples at appropriate intervals (usually 5 feet) as determined by field conditions.
- 4. The Unified Soils Classification System (USCS) is utilized to classify the soils. Rocks are classified according to the Colorado School of Mines "Classification of Rocks."
- 5. The soil samples are obtained using a modified California split-spoon sampler, which accommodates two to six sample tubes. Various tubes are utilized to accommodate the different analyses required:

Brass Tubes: 2 1/2 by 3 or 6 inches - for all organics and general analyses, excluding copper and zinc.

.

Stainless Steel Tubes: 2 1/2 by 3 or 6 inches - for all organics and metals analyses excluding chrome and nickel.

- 6. The tubes are scrubbed with a brush and TSP or equivalent cleaning agent, then rinsed with tap water. If required, the tubes are steam cleaned. Tubes are given a final rinse with distilled water and delivered to the drilling site in closed buckets or equivalent to preclude recontamination.
- 7. After the sample tubes are removed from the sampler, the latter is completely disassembled and scrubbed in TSP or equivalent and tap water. The sampler is rinsed with tap water, and distilled water (if required) and reassembled with the required number of clean tubes.
- 8. Unclean tubes are washed with TSP or equivalent solution, rinsed with tap water, etc. as described in 6 above.
- 9. In loose soils, a sand catcher is used to prevent soil from falling out of the sampler.
- 10. The sampler is driven 12 or 18 inches at each sampling.

 Generally, the lowest tube is retained for analysis. The other tube or tubes are retained for split sampling or as a back-up.

Page B-3

- 11. The sample is logged in. After testing for the presence of combustible gases or volatile organic compounds, the sample is capped with Teflon liners and tight-fitting plastic caps to minimize leaching and cross-contamination. Black vinyl electrical tape is used to tightly secure the caps to the sample tube. The samples are labeled and preserved in clean ice chests containing Blue Ice or equivalent, to keep the samples at or about 4 degrees Celsius.
- 12. The samples are kept in the ice chest until delivered to a State and EPA certified testing laboratory, the same day if physically possible. The undelivered samples are stored or archived in secured Law Environmental sample storage at or about 4 degrees Celsius. A freezer is also available at Law Environmental if freezing samples is required or recommended.
- 13. All samples are accompanied by a chain-of-custody form, documenting the time, date, and person-in-charge since retrieval of the sample from the sampler.
- 14. In case of visual and/or olfactory evidence of contamination, soil cuttings are impounded in drums carrying cautionary labels. The drums are secured from random contact. Custody of the drums and their content will remain with the client at all times.

- 15. If chemical analysis of the soil indicates the presence of elevated levels of pollutants, then the Client will be informed of the test results and advised as to the lawful means of disposal or detoxification. Upon the written request and authorization by the Client, Law Environmental will organize the disposal or detoxification of the impounded soil in accordance with all applicable federal, state, county and local regulations.
- 16. The soil sample tube label includes:

Job Number
Boring Number and Depth
Sampling Date
Sampler's Initials
Test to be Performed (if known at the time of sampling).

- 17. An indelible marking pen or a ball-point pen is used to mark the sample tubes.
- 18. A detailed log is kept of all field activities.

APPENDIX C

BORING LOGS

OWNER	Hawker-Pacific, Inc.	PROJECT No. 58-9661
LOCATION	11310 Sherman Way, Sun Valley	y. California BORING No. B-1D
DRILLED BY	Datum Exploration	PAGE 1 of 4
DRILLING MET	HOD Hollow Stem Flight Auge	PATE 5/30/89
BOREHOLE DEP	TH 80 feet BOREHOLE DI	IA. 6 inches LOGGED BY MHH
DEPTH (fe	et)	
TIME		° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
	OVA READING (ppm methane)	CLAY SILT SAND GRAVEL
	SAMPLE GRAPHIC LOG	GRAPHIC LOG LEGEND
	USCS & WATER	RLEVEL
		DESCRIPTION OF MATERIALS
		4 inches of asphalt
1 -		nd, light brown
2 —		Gravel, coarser sand with gravel to 3
3 –	inch	nes
	, a	
4-	0	
5 —		
6-	0	
	b	
7 –	• • • • • • • • • • • • • • • • • • •	
8 –	 	
9_	Perc	thed water encountered at 9 feet
10-		
11		
12-		water
	6	
13 –	O Sand	still very moist
14-	0	1
15-	0	
16 —	0	
17 –		
18-	0	
19-	0	
20		

(continued on next page)

OWNER	Hawker-Pacific, Inc.	PROJECT No. 58-9661
LOCATION	11310 Sherman Way, Sun Valley, Cali	fornia BORING No. B-1D
DRILLED BY	Datum Exploration	PAGE2 of4
DRILLING MET	HOD Hollow Stem Flight Auger	DATE 5/30/89
BOREHOLE DEP	TH <u>80</u> feet BOREHOLE DIA. <u>6</u>	inches LOGGED BY MHH
DEPTH (fe		
TIME	<u> </u>	LAY SILT SAND GRAVEL
	(ppm methane) SAMPLE	GRAPHIC LOG LEGEND
	GRAPHIC LOG USCS & WATER LEVEL	1
		ESCRIPTION OF MATERIALS
	O SW Very moist	
21 —		,
22		
23	Ö	•
	0	
24-	<i>j</i>	
25 —		
26 —	a	
27		
28 —		
29	Still mois	t
30 —	0	
31-		
32 –		
	0	
33 –		
34		
35 —		
36 —	6	
	0	
37 –	6	
38-	0 0	
39 —		
40_		

(continued on next page)

BORING LOG	
OWNER Hawker-Pacific, Inc.	PROJECT No. 58-9661
LOCATION 11310 Sherman Way, Sun Valley, California	BORING No. B-1D
DRILLED BY Datum Exploration	PAGE3 of4
DRILLING METHOD Hollow Stem Flight Auger	DATE 12/07/89
BOREHOLE DEPTH80feet BOREHOLE DIA6inches	LOGGED BY WWG
DEPTH (feet)	
TIME CLAY SIL	T SAND GRAVEL
(ppm methane)	HIC LOG LEGEND
SAMPLE GRAP GRAPHIC LOG	HIC FOR FEREND
USCS & WATER LEVEL	
DESCRIPTION O	F MATERIALS
42 –	
43 —	
44-	
45-0830 0 No odor	
46 —	
47 –	
48 –	
4°	
49-	
50-0840 0 Sand with less gravel	
51-	
52 —	
53 —	
54—	
No odor	
55-0850 0	
56—	

Gravel to 3/4"

57 -

58 -

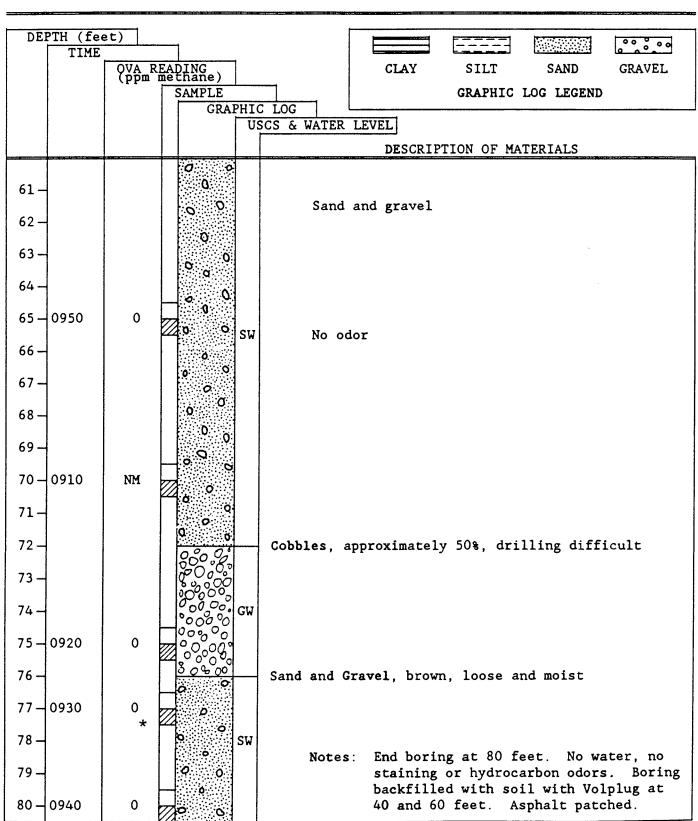
59 –

60 0900

0

^{*} Denotes sample preserved and given to RWQCB personnel (cont. on next page)

OWNER	Hawker-Pacific, Inc.	N.	PROJECT No.	58-9661
LOCATION	11310 Sherman Way, Sun Valley	. California	BORING No	B-1D
DRILLED BY	Datum Exploration		PAGE4	of4
DRILLING MET	OD Hollow Stem Flight Auge	r	DATE 12/0	07/89
BOREHOLE DEP	H <u>80</u> feet BOREHOLE DI	A. 6 inches	LOGGED BY W	JWG
		<u> </u>		



^{*} Denotes sample preserved and given to RWQCB personne1.

OWNER	Hawker-Pacitic, Inc	c		PROJECT No. 58-9661
LOCATION	11310 Sherman Way,	Sun Valley,	California	BORING No. B-2D
DRILLED BY_	Datum Exploration			PAGE1 of4
DRILLING ME	THOD Hollow Stem	Flight Auger		DATE 5/30/89
BOREHOLE DE	PTH <u>80</u> feet	BOREHOLE DIA.	6inche	s LOGGED BY MHH
DEPTH (f	eet)			
TIM	E			• • • • • • • • • • • • • • • • • • • •
	OVA READING (ppm methane)			SILT SAND GRAVEL
	SAMPLE GRAPHI	C LOG	G	RAPHIC LOG LEGEND
		SCS & WATER L	EVEL	
			DESCRIPTION	N OF MATERIALS
	2		inches of asp	
1-	SW 0 0	Sand and Gra	vel, brown,	some pebbles
2 —	0			
3 –	0	Gravel	to 2-3 inche	s
	a a			
4-	0			
5 —				
6-	6 6			
7 —		,		
/				
8 –	0 0			
9_	0	Gravel		
10 -	i o			
	o i			
11-	0 0	More si	lt and fine	grained sand, less gravel
12-	0	Very mo	ist	
13-				
14-	0			
15 –	9			
16-				
	6			
17-				
18 —				
19-		-		
20 -	1 1 0 × × 1			

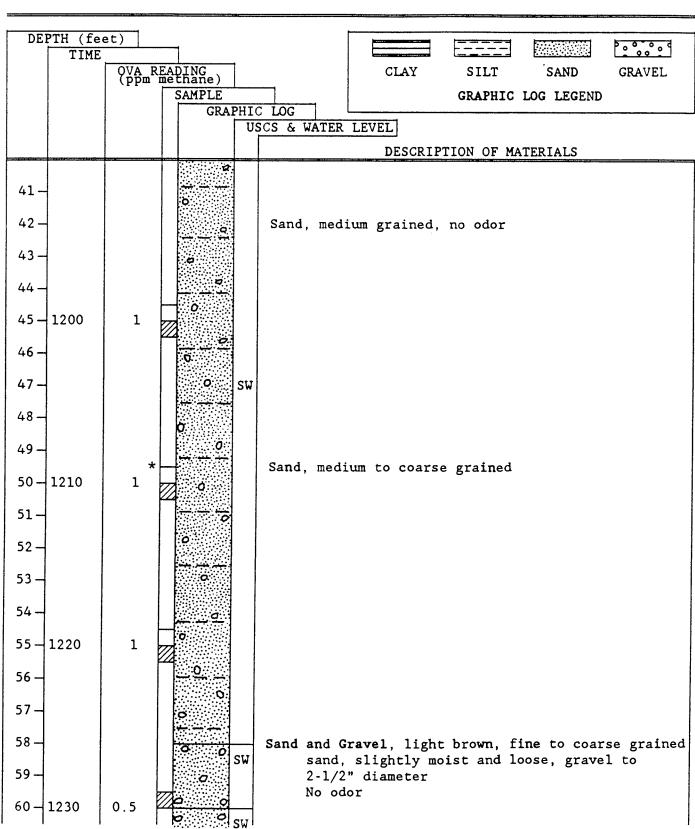
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PROJECT No. 58-9661

LOCATION	11310 Sherman Wa	y, Sun Valley	California	BORING No	B-2D
DRILLED BY_	Datum Exploratio	n		PAGE2	of <u>4</u>
DRILLING ME	THOD Hollow Ste	m Flight Auger	-	DATE5/30)/89
BOREHOLE DE	PTH <u>80</u> feet	BOREHOLE DIA	A. <u>6</u> inche	s LOGGED BY ME	łH
DEPTH (f					20000
TIM	OVA READING (ppm methane)		CLAY	SILT SAND	GRAVEL
	SAMPLE		G	RAPHIC LOG LEGENI)
	GRAP	HIC LOG USCS & WATER	LEVEL		
				N OF MATERIALS	
	• • • • • • • • • • • • • • • • • • •	SW Sand, some	gravel		
21-	σ σ				
22 —	a l				
23 —	0				
24-	0				
25 —	8 9				
]	<u> </u>				
26 –					
27 –	60				
28-	5				
29 —	86 0				
30 -	56				
31-	50				
32 —					
33 —					
34 —	• •				
35 -					
36 -					
37 –	0.0				
38 –					
39 –					
40 _					

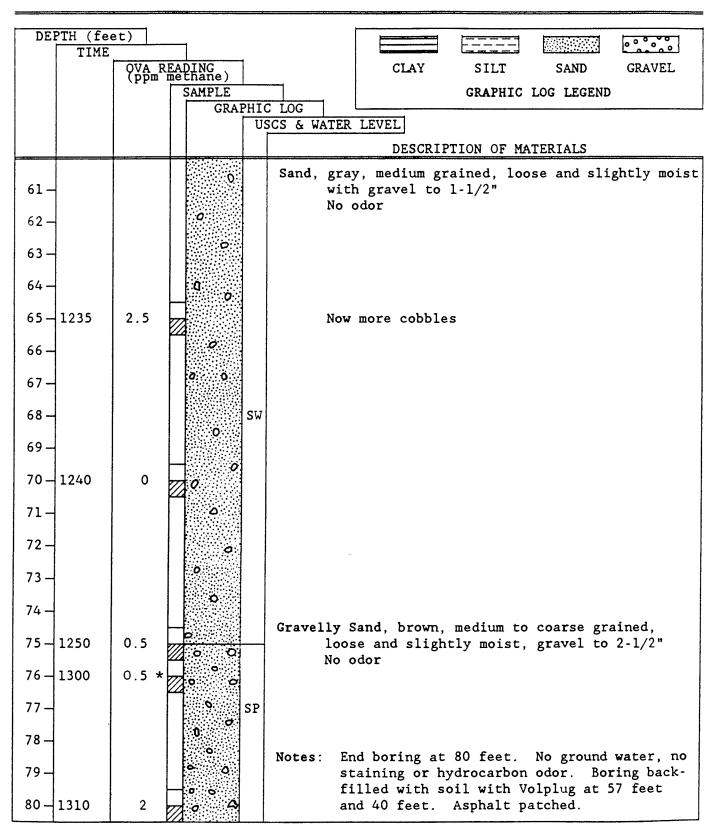
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OWNER	Hawker-Pacific. In	nc.		PROJECT No	58-966	1
LOCATION	11310 Sherman Way	. Sun Valley, Cal	lifornia	BORING No.	B-2D	
DRILLED BY	Datum Exploration			PAGE3	of	4
DRILLING METH	HOD Hollow Stem	Flight Auger		DATE12	/07/89	
BOREHOLE DEPT	TH <u>80</u> feet	BOREHOLE DIA	6inches	LOGGED BY_	WWG	



^{*} Denotes sample preserved and given to RWQCB personnel (cont. on next page)

OWNER	Hawker-Pacitic, Inc.	PROJECT	No	<u> 58-966</u>	1
LOCATION	11310 Sherman Way, Sun Valley, California	BORING	No	B-2D	
DRILLED BY	Datum Exploration	PAGE	4	_ of	4
DRILLING METI	HOD Hollow Stem Flight Auger	DATE	12/0	7/89	
BOREHOLE DEP	TH 80 feet BOREHOLE DIA. 6 inches	LOGGED	BY_W	WG	



^{*} Denotes sample preserved and given to RWQCB personnel.

OWNER	Hawker-Pacific, Inc.	PROJECT No. 58-9661
LOCATION	11310 Sherman Way, Sun Valley, California	BORING No. CB-1D
DRILLED BY_	Datum Exploration	PAGE1 of2
ORILLING ME	THOD Hollow Stem Flight Auger	DATE 12/07/89
BOREHOLE DE	PTH <u>40</u> feet BOREHOLE DIA. <u>6</u> inc	hes LOGGED BY WWG
DEPTH (fe	eet)	
TIM	E	
	OVA READING (ppm methane)	SILT SAND GRAVEL
	SAMPLE GRAPHIC LOG	GRAPHIC LOG LEGEND
	USCS & WATER LEVEL	
	DESCRIPT	ION OF MATERIALS
	4" of concrete at surf	ace
1-	G Fill siles and doub	
2 —		brown, some gravel, slightly firm with no hydrocarbon
,	odor	•
3 —		coarse grained, moderately some fine sand and gravel to
4	l" in diameter,	no hydrocarbon odor
5 —		
6 —	6 SW cobbles (granite)
7	0 0	
8 —		
	o	
9 –		
10-		
1040	1	
12 –		
13-	0	
1.6		
14-		•
15 - 1050	sand, medium grai	ined, with a trace of clay
16-		
17 –		
18 –		
19		
20 –		1 N
	(continued	l on next page)

OWNER	Hawker-Pacific, I	nc. PROJECT No. 58-9661
LOCATION	11310 Sherman Way	. Sun Valley, California BORING No. CB-1D
		PAGE2 of2
DRILLING MET	HOD Hollow Stem	Flight Auger DATE 12/07/89
BOREHOLE DEP	TH <u>40</u> feet	BOREHOLE DIA. 6 inches LOGGED BY WWG
DEPTH (fe	et)	
TIME		
	OVA READING (ppm methane)	CLAY SILT SAND GRAVEL
	SAMPLE GRAPH	GRAPHIC LOG LEGEND
		USCS & WATER LEVEL
		DESCRIPTION OF MATERIALS
21 - 1105	4 0 S	J
22 —	0	
23 —	0	
24 -	D O	
	o l	
25 – 1120	3 , 0	sand, coarse grained with gravel to 3/4" in diameter, with some medium grained sand
26 -	0 0	Grameter, with some medium grained sand
27	6	
	0 0	·
28 –	6	
29 —		·
30	o _o	
1145	3	
31	1 1 1 1 1 1 1 1	
32 —	Ø ð	
33 —	0	
34 —	0 0	
35 — 1201		
36 - 1201		
37 —	0 8	Notary End harries as 10 feet
	a ,	Notes: End boring at 40 feet, no water, no hydrocarbon odor or staining. Boring
38 –	0 0	backfilled with soil with Volplug
39-	0 0	pellets placed at 20 and 30 foot depths. The boring was sealed at
40 – 1220	0.5	the surface with Volplug pellets and the concrete was patched.

APPENDIX D

ANALYTICAL TEST RESULTS AND CHAIN-OF-CUSTODY

OF SOIL SAMPLES

December 18, 1989



WEST COAST ANALYTICAL SERVICE, INC.

ANALYTICAL CHEMISTS

Α

LAW ENVIRONMENTAL, INC. 3420 N. San Fernando Blvd, Suite 200 Burbank, CA 91504

Attn:

Warren Gross

JOB NO.

14339

LABORATORY REPORT

Samples Received: Twenty-three (23) soils

Date Received: 12-8-89

Purchase Order No: Proj#: 58-9661/Hawker Pacific

The samples were analyzed as follows:

Samples Analyzed	Analysis	<u>Results</u>
Fifteen (15) soils	Halogenated and Aromatic Volatile Organics by EPA 8010/8020	Data Sheets
One (1) soil	Matrix Spike/Matrix Spike Duplicate by EPA 8010/8020	Data Sheet

Page 1 of 1

Michael Shelton Senior Chemist

B. Michael Hovanec Senior Staff Chemist

LAW ENVIRONMENTAL, INC. Client:

Job No:

14339

Date

Analyzed: 13-Dec-89

Analysis: EPA 601/602 (8010/8020)

Sample: B-1D @ 50'

Matrix: Soil

Dil Fact:

Samp Amt:

1 gm 1

Compound ====================================	Concentration ug/Kg	Detection Limits
Chloromethane	ND	
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	2
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Job No: 14339

Date

Analyzed: 13-Dec-89

Analysis: EPA 601/602 (8010/8020)

Sample: B-1D € 60'

Matrix: Soil

Samp Amt: 1 gm Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene ,	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	2
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

ND-Not Detected. The limit of detection is reported above.

- TVV CF: VS

Client: LAW ENVIRONMENTAL, INC. Sample: B-1D @ 70'

Job No: 14339

Date Matrix: Soil

Analyzed: 13-Dec-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	2
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

LAW ENVIRONMENTAL, INC. Client:

Job No: 14339

Date

Matrix: Soil Analyzed: 13-Dec-89 Samp Amt:

1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Sample: B-1D @ 80'

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND .	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	2
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Job No: 14339

Date

Analyzed: 13-Dec-89

Analysis: EPA 601/602 (8010/8020)

Bromodichloromethane

1,2-Dichloropropane

1,4-Dichlorobenzene

1,2-Dichlorobenzene

Trichloroethylene

1,1,2,2-Tetrachloroethane

trans-1,3-Dichloropropylene

Sample: B-2D @ 50'

Matrix: Soil

Samp Amt: 1 gm

1.5

1.5

1.5

1.5

1.5

1

1

Dil Fact:

Detection Concentration Limits ug/Kg Compound ______ 5 ND Chloromethane 5 ND Bromomethane 3 ND Vinyl Chloride 5 ND Chloroethane ND 25 Methylene Chloride 3 ND 1,1-Dichloroethylene 2 1,1-Dichloroethane ND 1.5 ND trans-1,2-Dichloroethylene 2 ND Trichlorofluoromethane ND 1.5 Chloroform 2 ND 1,2-Dichloroethane 1.5 1,1,1-Trichloroethane ND 1.5 Carbon Tetrachloride ND

> 1.5 ND Dibromochloromethane 1.5 1,1,2-Trichloroethane ND 1 Benzene ND cis-1,3-Dichloropropylene ND 1.5 Δ 2-Chloroethyl Vinyl Ether ND 2.5 ND Bromoform 1.5 ND Tetrachloroethylene 1 ND Toluene 3 ND Chlorobenzene 1 ND Ethylbenzene 1 ND Total Xylenes 1 1,3-Dichlorobenzene ND

ND

ND

ND

ND

ND

ND

ND

Client: LAW ENVIRONMENTAL, INC. Sample: B-2D @ 60'

Job No: 14339

Date Matrix: Soil

Analyzed: 14-Dec-89 Samp Amt: 1 gm Dil Fact:

Analysis: EPA 601/602 (8010/8020)

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	3
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ИD	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Job No: 14339

Date Matrix: Soil

Analyzed: 14-Dec-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Sample: B-2D @ 70'

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	 ND	5 ·
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	3
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND.	1

Job No:

14339

Date

Analyzed: 14-Dec-89

Analysis: EPA 601/602 (8010/8020)

Sample: B-2D @ 80'

Matrix: Soil

Samp Amt:

Dil Fact:

1 gm

======	Compound	Concentration ug/Kg	Detection Limits
	Chloromethane	 ND	 5
	Bromomethane	ND	5
	Vinyl Chloride	ND	3
	Chloroethane	ND	5
	Methylene Chloride	ND	25
	1,1-Dichloroethylene	ND	3
	1,1-Dichloroethane	ND	2
	trans-1,2-Dichloroethylene	ND	1.5
	Trichlorofluoromethane	ND	2
	Chloroform	ND	1.5
	1,2-Dichloroethane	ND	2
	1,1,1-Trichloroethane	ИD	1.5
	Carbon Tetrachloride	ИD	1.5
	Bromodichloromethane	ND	1.5
	1,1,2,2-Tetrachloroethane	ND	1.5
	1,2-Dichloropropane	ND	1.5
	trans-1,3-Dichloropropylene	ND	1.5
	Trichloroethylene	ND	1.5
	Dibromochloromethane	ND	1.5
	1,1,2-Trichloroethane	ND	1.5
	Benzene	ND	1
	cis-1,3-Dichloropropylene	ND	1.5
•	2-Chloroethyl Vinyl Ether	ND	4 .
	Bromoform	ND	2.5
	Tetrachloroethylene	ND	1.5
	Toluene	ND	1
	Chlorobenzene	ND	3
	Ethylbenzene	ND	1
	Total Xylenes	ND	ī
	1,3-Dichlorobenzene	ND	ī
	1,4-Dichlorobenzene	ND	1
	1,2-Dichlorobenzene	ND	ī

Job No: 14339

Date

Matrix: Soil Analyzed: 14-Dec-89

Analysis: EPA 601/602 (8010/8020)

Samp Amt: Dil Fact:

1 gm

1

Sample: CB-1D @ 10'

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	======================================	 5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	3
Ethylbenzene	ND	ī
Total Xylenes	ND	ī
1,3-Dichlorobenzene	ND	ī
1,4-Dichlorobenzene	ND	ī
1,2-Dichlorobenzene	ND	ī

Job No: 14339

Date

Matrix: Soil Analyzed: 14-Dec-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Sample: CB-1D @ 15'

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	=====================================	
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	, ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	3
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Job No:

Date

14339

Analyzed: 14-Dec-89

Analysis: EPA 601/602 (8010/8020)

Sample: CB-1D @ 20'

Matrix: Soil

Samp Amt:

1 gm Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	3
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Sample: CB-1D @ 25'

Job No: 14339

Date

Matrix: Soil

Analyzed: 14-Dec-89 Analysis: EPA 601/602 (8010/8020) Samp Amt: 1 gm Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
=======================================	=======================================	
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	3
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

LAW ENVIRONMENTAL, INC. Client:

Job No:

14339

Date

Analyzed: 14-Dec-89

Analysis: EPA 601/602 (8010/8020)

Sample: CB-1D @ 30'

Matrix: Soil

Samp Amt:

Dil Fact:

1 gm 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	1
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

ND-Not Detected. The limit of detection is reported above.

Job No: 14339

Date

Analyzed: 14-Dec-89 Analysis: EPA 601/602 (8010/8020)

Sample: CB-1D @ 35'

Matrix: Soil

1 gm Samp Amt:

Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	иD	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5 .
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	4.2	1
Chlorobenzene	ND	1
Ethylbenzene	ND	1
Total Xylenes	ND	1 1
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Job No: 14339

Date

Analyzed: 14-Dec-89 Samp Amt:

Analysis: EPA 601/602 (8010/8020)

Matrix: Soil
Samp Amt: 1 gm

1

Sample: CB-1D @ 40'

Dil Fact:

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	 ND	 5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	ND	1
Chlorobenzene	ND	1
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

ND-Not Detected. The limit of detection is reported above.

:7///J:45

Client: LAW ENVIRONMENTAL Sample: LAB BLANK

Job No: 14339

Date Matrix: Soil

Analyzed: 14-Dec-89 Samp Amt: 1 gm Analysis: EPA 601/602 (8010/8020) Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroet	hylene ND	1.5
Trichlorofluorometha	ne ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethan	e ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroe	thane ND	1.5
1,2-Dichloropropane	, ND	1.5
trans-1,3-Dichloropr	opylene ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethan	e ND	1.5
Benzene	ND	1
cis-1,3-Dichloroprop	ylene ND	1.5
2-Chloroethyl Vinyl	Ether ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	1	1
Chlorobenzene	ND	1
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

Client: LAW ENVIRONMENTAL Sample: LAB BLANK

Job No: 14339

Matrix: Soil Date

Analyzed: 14-Dec-89 Analysis: EPA 601/602 (8010/8020) Samp Amt: 1 gm Dil Fact: 1

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	ND	5
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	2	1
Chlorobenzene	3	1
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

ND-Not Detected. The limit of detection is reported above.

Client: LAW ENVIRONMENTAL

Job No: 14339

Date

Analyzed: 13-Dec-89

Analysis: EPA 601/602 (8010/8020)

Sample: LAB BLANK

Matrix: Soil

Samp Amt: Dil Fact:

1 gm

Compound	Concentration ug/Kg	Detection Limits
Chloromethane	 ND	
Bromomethane	ND	5
Vinyl Chloride	ND	3
Chloroethane	ND	5
Methylene Chloride	ND	25
1,1-Dichloroethylene	ND	3
1,1-Dichloroethane	ND	2
trans-1,2-Dichloroethylene	ND	1.5
Trichlorofluoromethane	ND	2
Chloroform	ND	1.5
1,2-Dichloroethane	ND	2
1,1,1-Trichloroethane	ND	1.5
Carbon Tetrachloride	ND	1.5
Bromodichloromethane	ND	1.5
1,1,2,2-Tetrachloroethane	ND	1.5
1,2-Dichloropropane	ND	1.5
trans-1,3-Dichloropropylene	ND	1.5
Trichloroethylene	ND	1.5
Dibromochloromethane	ND	1.5
1,1,2-Trichloroethane	ND	1.5
Benzene	ND	1
cis-1,3-Dichloropropylene	ND	1.5
2-Chloroethyl Vinyl Ether	ND	4
Bromoform	ND	2.5
Tetrachloroethylene	ND	1.5
Toluene	2	1
Chlorobenzene	2	1
Ethylbenzene	ND	1
Total Xylenes	ND	1
1,3-Dichlorobenzene	ND	ī
1,4-Dichlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1

ND-Not Detected. The limit of detection is reported above.

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LAW ENVIRONMENTAL, INC. 3420 N. San Fernando Blvd. Suite 200 Burbank, California 91504 (818) 848-0214

RECORD CUSTODY OF CHAIN

Lab Log Number

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Samples are discarded 30 days after results are reported, unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. MOTE:

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*AQ · Aqueous; NA · Monaqueous; Sl · Sludge; GW · Ground Water; SO · Soil; PE · Petroleum; OT · Other

2 of 2

LAW ENVIRONMENTAL, INC.

3420 W. San Fernando Blvd. Suite 200 Burbank, California 91504 (818) 848-0214

RECORD CUSTODY 0 F CHAIN

Remarks Lab Log Mumber Analyses Required × × ナナ Ŧ Number of Containers 58-9661 action 65'4 CAN TO 101, Barteran 75' NATURBAN 80' 60,7 5,5 251 Gross 30, 35, 20 2 Project Number Sample Description Sampled by Warren (g) (A) K 1 O SE Ø Grass Sampled Sampled Type* 11/18/1235 | 50 Hawker 2411 1250 10%0 1050 1105 1220 1240 1205 1310 1120 Report Attention Project Name Client Neme Sample Munber 73 5 ્

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Signature

Samples are discarded 30 days after results are reported, unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. NOTE:

B14339

*AO - Aqueous; NA - Nonaqueous; SL - Sludge; GW - Ground Water; SO - Soil; PE - Petroleum; OT - Other



BACKGROUND

A preliminary subsurface investigation was conducted at the site in June 1990 (Active Leak Testing, Inc. [ALT], Hawker Pacific), to determine the presence of contamination from a small (approximately 200 gallon) underground storage tank. A geophysical survey at the site was conducted by Spectrum E.S.I. in August 1990. The survey indicated that the tank was four feet in length, four feet in diameter, and at one time contained waste oil. The tank was located within a concrete containment area at the west end of the alley. A sump, one foot by one foot by three feet deep, was discovered during this investigation.

During the ALT investigation, three borings (B-1, B-2 and B-3) were drilled in the area of the underground storage tank and the sump. Borings B-1 and B-2, located adjacent to the underground storage tank, were slant-drilled and completed to a depth of 20 feet. Boring B-3, located adjacent to the sump, was slant-drilled to a depth of 15 feet. All samples were tested for total recoverable hydrocarbons (EPA Method 418.1) and one sample (Boring B-3 at five feet) was analyzed for purgeable organics (EPA Method 8240). Table 1 presents the analytical laboratory results of the soil samples.



TABLE 1

RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES FOR TOTAL RECOVERABLE HYDROCARBONS AND PURGEABLE ORGANICS FROM ALT REPORT, JUNE 1990

SAMPLE MINNEER AND: DEPTH	TRN (ppm)	1,1,1-TCA (ppb)	TCE (ppb)	TOLUENE (ppb)	PCE (ppb)	TOTAL XYLENE
B-1 a 15'	36.3	NT	זא			(ppb)
B-1 a 20'	36.3	NT		NT	NT	NT
B-2 a 15'	220		NT	NT	NT	NT
B-2 a 20'		NT	NT	NT	NT	NT
	136	NT	NT	NT	NT	NT
B-3 2 1'	38,637	TK	NT	NT		
8-3 2 3'	22,251	NT	NT		NT	NT
8-3 9 51	3,245	6.6		NT	TK	NT
3-3 a 10'			19.2	550,000	555,000	584
	17, 104	NT	NT	NT	NT	NT
3-3 a 15:	354	NT	NT	NT	NT	NT

TRH = Total Recoverable Hydrocarbons

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene
PCE = Tetrachloroethene

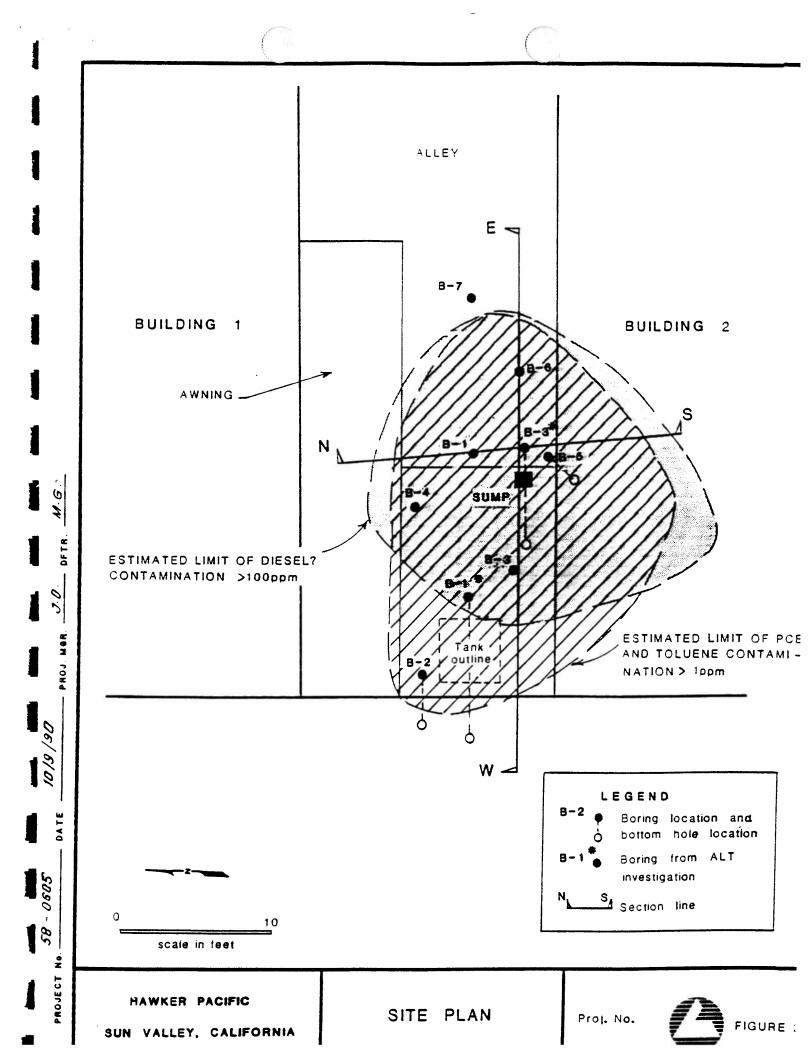
T = Not Tested

PURPOSE

The purpose of the current investigation was to delineate the vertical and horizontal extent of contamination that occurred as a result of the discharge from the underground storage tank and/or the sump.

SCOPE OF INVESTIGATION

Seven soil borings were drilled in the alley as shown on Figure 2. One boring (B-1) was drilled to 80 feet, one (B-2) to 40 feet, one (B-5) to 25 feet, and four borings (B-3, B-4, B-6, and B-7) were drilled to a depth of 20 feet. Undisturbed soil samples were





collected at 5-foot intervals in all borings. Based on field observations, selected soil samples were submitted to Curtis and Tompkins, Ltd. of Los Angeles, California, a state-certified analytical laboratory. The selected samples were analyzed for total extractable petroleum hydrocarbons (EPA Method 8015, Modified) and volatile organics (EPA Method 8240).

SUBSURFACE INVESTIGATIVE METHODS

Field work was conducted from August 28 through August 31, 1990. Seven soil borings, designated B-1 through B-7 were drilled in the alley (Figure 2). All work was performed in accordance with a site-specific Health and Safety Plan (Appendix A). Soil samples were obtained according to procedures outlined in Appendix B, Soil Sampling Protocol. The sampling equipment was thoroughly washed and rinsed prior to and during sampling. The soil samples were obtained by driving a split-spoon California sampler into the soil ahead of the augers. A soil sample from each sample interval was screened using an organic vapor analyzer (Foxboro OVA 108 GC) and Gastechtor 1238 to quantify organic vapor concentrations and combustible gas concentrations, respectively. Samples were collected in brass tubes, capped with Teflon® liners and tightfitting plastic lids, and secured with vinyl tape. The samples were labeled and placed in an ice-filled cooler until delivery to the laboratory.

All findings and conclusions derived from measurements and/or analyses of soil, water, air and/or gas are based on the conditions which existed only at those particular sample locations and the times of sampling. The analytical results reflect the range of accuracy and detection levels, when specified, for the particular analytical equipment and/or specific analytical method(s) used.

Drilling was conducted by Layne Environmental Services, formerly Datum Exploration of Long Beach, California using B-53 and CME75 truck-mounted, hollow-stem auger drilling rigs and a SIMCO golf cart-mounted, hollow-stem drilling rig. Boring B-1 was completed to a depth of 80 feet. Boring B-2 was slant-drilled five degrees from vertical in a westward direction to a depth of 40 feet. Boring B-5 was slant-drilled five degrees from vertical in a southwest direction to a depth of 25 feet. Borings B-3, B-4, B-6, and B-7 were drilled to depths of 20 feet. Soil samples were collected from all borings at 5-foot intervals. All borings were backfilled with soil and patched with concrete or capped with the concrete plug that was cut for the boring.

FINDINGS

Field Observations

A thin layer of fill exists beneath the site. The fill soils consist of brown, medium to coarse-grained sand. Alluvial soil was



encountered in all borings. The alluvium consists generally of medium to very coarse-grained sand with gravel up to two inches in diameter and minor lenses of silty sand with gravel. Gravel lenses were encountered in Boring B-1 at depth which made drilling below 70 feet very difficult. Ground water was not encountered in any of the borings.

Conspicuous solvent odors were detected in drill cuttings from Borings B-1, B-3 and B-5. No visual evidence of contamination was noted in the drill cuttings. A Gastechtor 1238 was used to monitor combustible gases in the samples from Boring B-1. The values ranged from 450 parts per million ([ppm], relative to hexane) at 49 feet, to 240 parts per million (ppm) at 69 feet. The Foxboro 108 GC OVA was used to screen samples in all other borings. Organic vapor concentrations in Boring B-3 ranged from 75 ppm to 5 ppm (relative to methane), and in Boring B-5 from 44 ppm to 1 ppm (relative to methane). All boring logs are included in Appendix C.

OVA and Gastechtor readings were used as a relative indicator of the volatile organic compound content (including methane) of the soil in order to aid in the selection of samples for laboratory analyses. All equipment readings are included on the boring logs.



Analytical Results

Analytical reports containing the results of testing of soil samples are included in Appendix D. Chain-of-Custody and QA/QC documentation are also included in Appendix D. Tables 2 and 3 present the analytical data obtained from testing 18 soil samples for extractable petroleum hydrocarbons by U.S. EPA Method 8015 (Modified) and purgeable organics by U.S. EPA Method 8240, respectively.

TABLE 2

RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES
FOR EXTRACTABLE PETROLEUM HYDROCARBONS
BY MODIFIED U.S. EPA METHOD 8015

BORING NO.	DEDTU Cin dans		CONCENTRATION (in ppm)
	DEPTN (in feet)	GASOL1NE	KEROSENE	DIESEL
8-1	9	ND <.5	NR	NR
	29	ND <.5	NR	NR
	49	ND <.5	NR	NR
	69	ND <.5	NR	NR
	74	ND <10	ND <10	ND <10
8-2	. 5	ND <10	ND <10	ND <10
	20	ND <10	ND <10	ND <10
	30	ND <10	ND <10	ND <10
	40	ND <10	ND <10	ND <10
8-3	10	ND <10	ND <10	ND <10
	20	ND <10	ND <10	ND <10
8-4	5	ND <10	ND <10	110*
	20	ND <10	ND <10	ND <10
8-5	5	ND <50	ND <50	7,300 *
	20	ND <10	ND <10	88*
8-6	20	ND <10	ND <10	ND <10
8-7	5	ND <10	ND <10	ND <10
	20	ND <10	ND <10	ND <10

ND<10 = Not detected, detection limit noted

NR = Not reported

^{*} Hydrocarbons in diesel range, did not match standards



TABLE 3

RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES
FOR PURGEABLE ORGANICS
BY U.S. EPA METHOD 8240

SAMPLE NUMBER	CONCENTRATION (in ppb)								
AND DEPTH	PCE	TOLUENE	TCE:	1,1,1-TCA	1,1-DCE	1,1-DCA			
B-1 a 9'	ND <5	TR =4	ND <5	ND <5	ND <5	ND <5			
B-1 a 29'	ND <5	8	ND <5	ND <5	ND <5	ND <5			
B-1 2 491	ND <5	5	ND <5	ND <5	ND <5	ND <5			
8-1 2 69'	ND <5	8	ND <5	ND <5	ND <5	ND <5			
B-1 @ 74'	ND <5	TR ≈4	ND <5	ND <5	ND <5	ND <5			
B-2 9 5'	450	70	ND <5	ND <5	ND <5	ND <5			
B-2 a 20'	42	18	ND <5	ND <5	ND <5	ND <5			
B-2 9 30'	7	10	ND <5	ND <5	ND <5	ND <5			
B-2 a 40'	ND <5	TR =4	ND <5	ND <5	ND <5	ND <5			
B-3 a 10'	21	18	ND <5	ND <5	ND <5	ND <5			
B-3 a 20'	20	25	ND <5	ND <5	ND <5	ND <5			
8-4 @ 5'	370	40	ND <5	ND <5	ND <5	ND <5			
3-4 2 20'	26	14	ND <5	ND <5	ND <5	ND <5			
3-5 2 51	130,000	150	260	290	42	28			
3-5 a 25'	16	TR #3	ND <5	ND <5	ND <5	ND <5			
3-6 2 20 ·	ND <5	ND <5	ND <5	ND <5	ND <5	ND <5			
1-7 a 51	ND <5	13	ND <5	ND <5	ND <5	ND <5			
3-7 20'	ND <5	ND <5	ND <5	ND <5	ND <5	ND <5			

PCE = Tetrachioroethene
TCE = Trichioroethene
1,1,1-TCA = 1,1,1-Trichioroethane

1,1-DCE = 1,1-Dichloroethene
1,1-DCA = 1,1-Dichloroethene

ND <5 = Not detected, detection limit noted

TR = Trace

Elevated concentrations of tetrachloroethene (PCE) (130,000 parts per billion [ppb]) and diesel-like petroleum hydrocarbons (7,300 ppm) were detected in samples from the sump area boring (B-5) at 5 feet. The concentration of these constituents (PCE and diesel) decreased in B-5 at 25 feet to 16 ppb and 88 ppm, respectively. Slightly elevated levels of PCE and toluene were also found in soil samples from the adjacent borings (B-1, B-2, B-3, and B-4).



The concentrations of petroleum hydrocarbons in soil reported in the diesel category were not an exact match to the diesel standard. Mr. Tony Hart, laboratory manager for Curtis and Tompkins Laboratory, indicated that aged diesel can give similar responses. Other solvents, such as Stoddard solvent, can also show up in the diesel range in analyses for extractable petroleum hydrocarbons.

CONCLUSIONS

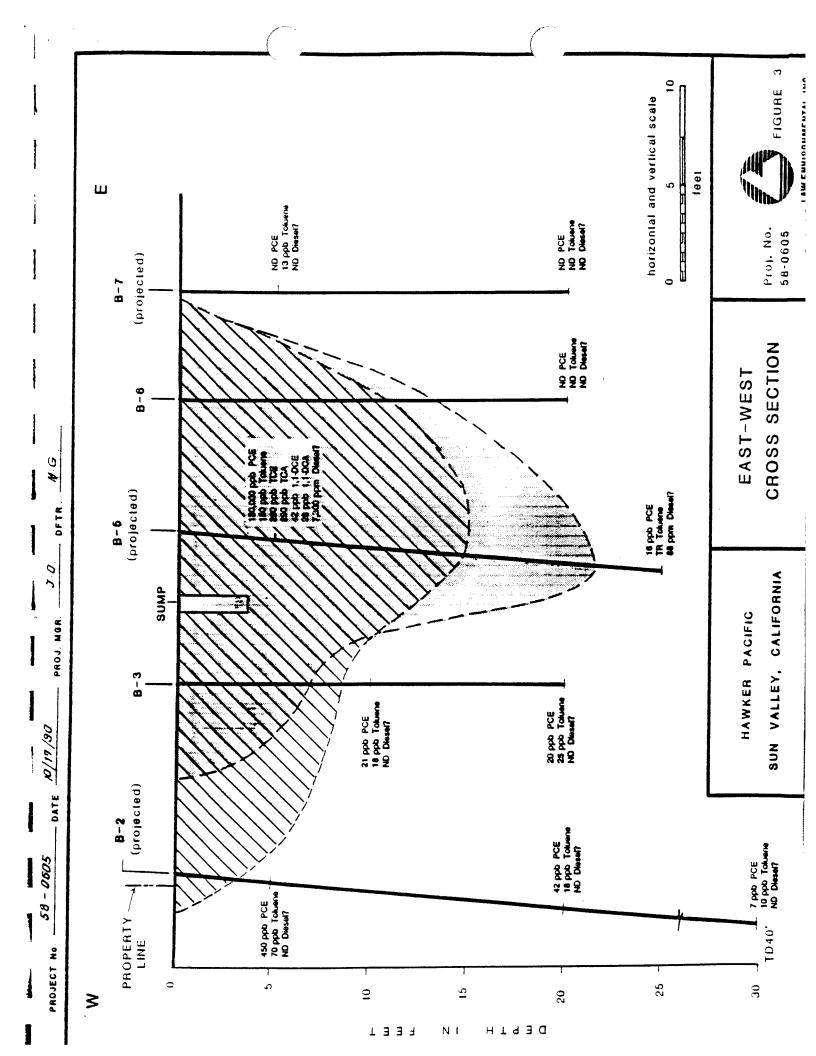
Based on the high concentration of PCE, toluene and the diesel range petroleum hydrocarbons beneath the small sump area, we conclude that a release of hazardous constituents has occurred at that location. A leak in the underground storage tank may be responsible for some of the contamination; however, the sump is the most probable origination point for the release. PCE, toluene and petroleum hydrocarbon contamination extends vertically down to approximately 25 feet at the sump location.

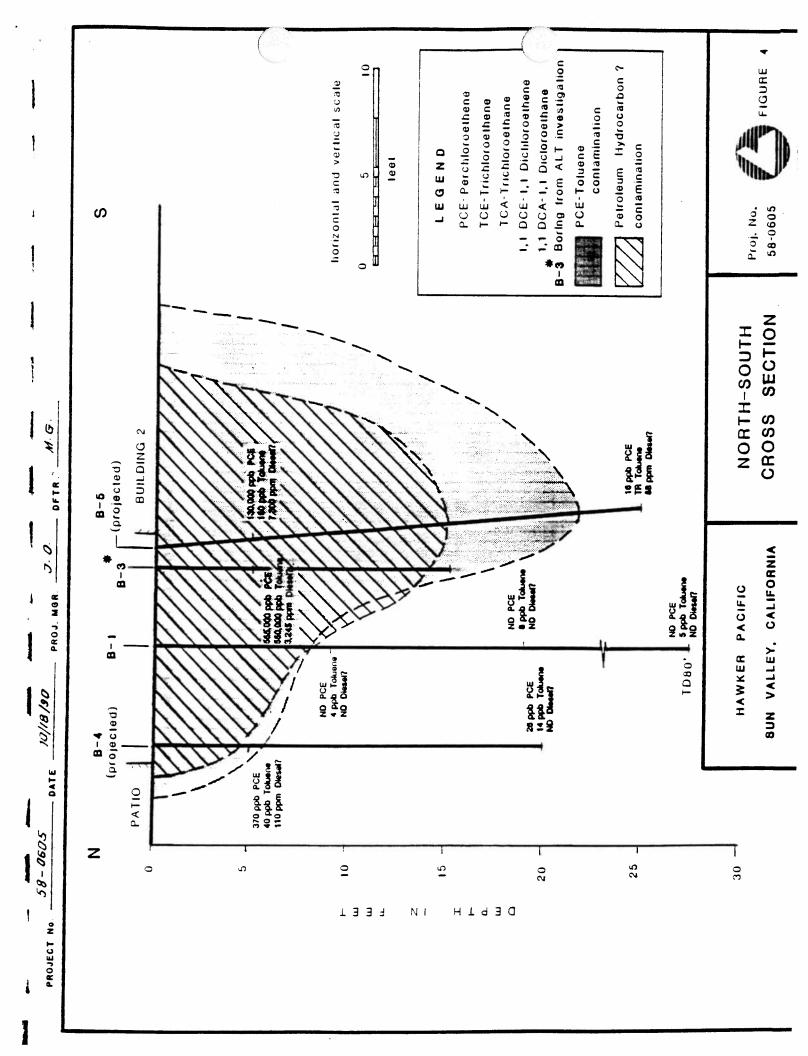
Figure 2 shows approximate limits of the horizontal extent of PCE, toluene and diesel-like contamination. The analytical results indicate that the limits of the combined toluene and PCE contamination extend further west than the diesel-like contamination. This may reflect an additional discharge point, but more likely indicates different migration characteristics of the constituents or a difference in soil type. The Los Angeles County Department of Public Works has set a cleanup level of 100 ppm for



diesel compounds encountered in soils. This is the maximum level of diesel contamination in soil that may be allowed to remain in place without undergoing removal or remediation. Contamination near Boring B-5 is present down to approximately 15 to 20 feet (Figures 3 and 4). Concentrations of PCE, toluene and diesel-like constituents decrease rapidly with lateral distance from B-5. It is likely that the contamination extends beneath Buildings 1 and 2 near B-4 and B-5, respectively. The contours depicted on Figure 2 were approximated by the interpolation of known lateral reductions in concentrations of the constituents tested. Contamination is present to the east of the sump area, but does not extend to B-6.

PCE, among others, is a solvent commonly used in the manufacturing industry. Toluene can be a component of certain solvents or fuel. If the toluene present at the site was a component of fuel, we would expect to detect a substantial concentration of other fuel constituents, such as benzene, ethylbenzene and xylenes, in the purgeable organics analyses. However, none of these latter fuel additives were detected in the samples tested. Therefore, the observed levels of toluene suggest that they may be attributable to solvent and may either be a result of weathering of the solvent or the boosting of solvent to improve a particular property. The petroleum hydrocarbons detected in the diesel range could also be either weathered diesel or a C12 to C30 solvent.







RECOMMENDATIONS

- Law Environmental recommends that steps be taken to remove the underground storage tank at the west end of the alley between Buildings 1 and 2. The data from analyses of the samples collected in this investigation and the previous assessment should be sufficient information for the lead agency to complete a tank closure report.
 - It is recommended that the PCE and toluene-contaminated soil either be removed or remediated in-place. If soil is to be excavated, we recommend that a structural engineer be consulted to determine the stability of adjacent structures during and after removal of the material. Under the August 8, 1988 Land Disposal Restrictions, land disposal of this soil is prohibited. The specific test to determine the Toxicity Characteristic Leaching Program (TCLP) concentration of PCE for site soils has not been performed. The data we do have, which indicates up to 555 ppm of PCE, suggests that the TCLP limit of 0.7 mg/l is probably exceeded. Toluene is not a TCLP regulated constituent, however, it is on the proposed list.

Remediation Alternatives

Excavation and incineration appears, at this point, to be the most costly, although most rapid, remedial measure. We estimate that a



minimum of 50 cubic yards of soil and an approximate maximum of 110 cubic yards may require remediation.

Soil vapor extraction is the preferred method of remediation at the site. Law Environmental is confident that soil vapor extraction will prove to be an effective method of significantly reducing PCE and toluene concentrations within site soils. We base this opinion on the nature of the underlying alluvial soils which are predominantly composed of sand and gravel.

Soil vapor extraction is generally considered a fairly long-term remedial measure, commonly requiring one to two years or more for completion. We estimate that 90 percent removal of recoverable PCE and toluene may be achieved within the first six months of operation of a full-scale system. Operation and maintenance costs should be minimal following the initial six months of operation, exclusive of many restrictions and monitoring requirements which may be imposed by regulatory agencies.

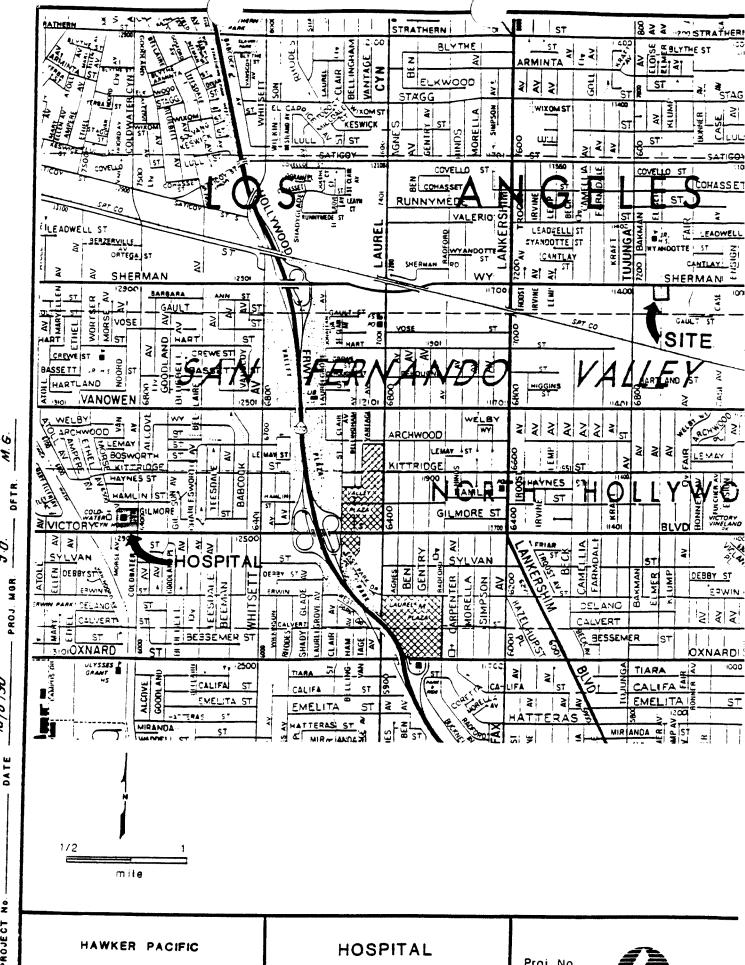
APPENDIX A

HEALTH AND SAFETY PLAN

JOB NAME Hawker Pacific	JOB NO. 58-0605
HEALTH A	ND SAFETY PLAN
Health and Safety Officer	Elaine Silvestro
Principal Engineer/Scientist	Glenn A. Brown
Field Safety Coordinator	Juli Oborne Date
DATE PREPARED	FIELD DATES
08/24/90	8/27-31/90
Site location: 11310 Sherma Sun Valley,	n Way California
MEDICAL SURVEILLANCE	
All Law Environmental fie corporate medical program.	ld personnel participate in the
EMERGENCY TELEPHONE NUMBER	
Emergency phone numbers, ar facility are to be determine prior to beginning work.	nd direction to phone or medical ed by the Field Safety Coordinator
HOSPITAL: (818) 984-2000 Col PIRE: 911 POLICE: 911 SAFETY: Jack Peng (404) 44 Elaine Silvestro	7-0544 (818) 848-0214

HOSPITAL LOCATION

Coldwater Canyon Hospital is located at 6421 Coldwater Canyon Avenue, North Hollywood, California.



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SAN FERNANDO VALLEY, CA.

LOCATION MAP

Proj. No. 58-0612



DIRECTIONS TO HOSPITAL

Travel west (left) on Sherman Way for approximately 2 miles. Turn south (left) on Coldwater Canyon Avenue and drive approximately one mile. Turn right into the hospital parking lot prior to Victory Boulevard.

EMERGENCY PROCEDURES

Exposures

<u>Skin</u> - remove contaminated clothing immediately, wash with soap and water.

Inhalation - remove to fresh air.

<u>Eve Contact</u> - flush with eye wash or water; get medical help if indicated. Contaminants may be absorbed through eyes.

Ingestion - get medical help if indicated.

<u>Injuries</u> - Administer first aid if appropriate. Medical emergencies take precedence over decontamination. Have change ready for telephone.

<u>Fire/Explosion</u> - Use hand extinguishers if appropriate and safety permits. Contact Project Manager and client officials. Evacuate if necessary to upwind location.

Accidental Spill/Release - (1) Pick up, isolate, or contain spill; (2) Evacuate area if necessary; (3) Contact project manager, Jack Peng, or Branch Manager.

SITE INFORMATION

HAZARDOUS/TOXIC MATERIALS

Chemical data sheets for the compounds listed below may be found at the end of the text.

Tetrachloroethene Toluene

HAZARDOUS ASSESSMENT

Tetrachloroethene and toluene have been released to the soil from a sump located in the alley between Buildings 1 and 2.

CLEAN AREA/DECONTAMINATION

To be determined at the site by the Field Safety Coordinator.

WORK PROCEDURES

PLANNED FIELD ACTIVITIES

Drilling of soil borings and collection of soil samples. Obtain samples at five-foot intervals using a California split-spoon sampler.

SITE AND/OR PERSONNEL MONITORING

An organic vapor detector will be used to monitor borings and excavated soils. Areas of airborne dust and odor should be avoided. All contact with soil should be avoided.

CLOTHING AND PROTECTIVE GEAR

Subcontractors and others not employed by Law Environmental will not be furnished protective equipment unless prior arrangements have been made.

Required at the Work Site

Level C Protection

Tyvek suits, half or full-face cartridge respirator with appropriate organic vapor cartridges, rubber boots and gloves, hard-hats, protective eyewear.

The Field Safety Coordinator will determine the appropriate level of personal protective equipment required to be worn based on conditions encountered in the field.

DECONTAMINATION PROCEDURES

Reusable safety gear will be washed prior to reuse or removing from site. Sampling tools, etc., will be decontaminated as prescribed in the Work Plan, or as directed by the Field Safety Coordinator.

DISPOSAL PROCEDURES

Contaminated items should be: (1) disposed of as directed by client officials; or (2) bagged or containerized and left on-site if possible.

WORK PRECAUTIONS

- 1. Prior to going on-site, the Field Safety Coordinator will review available data and information pertaining to site conditions, potential contaminants, and work to be accomplished.
- Prior to beginning any work on the site, the FSC shall brief all field personnel on the contents of this plan.
- 3. No eating, drinking, smoking, chewing gum, or tobacco is permitted at the work site.
- 4. Wear prescribed safety equipment as directed in this Plan.
- 5. Remove and discard any clothing that becomes contaminated.
- 6. Do not go anywhere on-site other than where directed by the FSC.
- 7. Wash exposed skin with soap and water before leaving site.
- 8. Potable water shall be provided in sufficient quantity to provide emergency washing.
- 9. Use safe and legal procedures for sample storage and shipment.

PERSONNEL AUTHORIZED TO ENTER SITE

By initialing and dating this form, the listed individual acknowledges that he has read, understands, and will comply with the requirements of this Health and Safety Plan.

Name		Date	Initials
	•		
	-		
Other personnel who may handle hazardou	is ma	aterials	
			,

FIELD SAFETY COORDINATOR'S SUMMARY
To be completed after each phase of work.
a. There was no violation of this Health and Safety Plan and no obvious contamination of any personnel.
b. The following incidents, violations, exposures, or contamination occurred. (Tell who, when, contaminants, circumstances, first aid or medical assistance needed.)
Field Safety Coordinator Date
* * * RETURN TO HEALTH AND SAFETY OFFICER * * *
ALL accidents or incidents resulting in POTENTIAL exposure to hazardous materials must be reported as soon as possible to:
 Health/Safety Officer, or Project Manager, or Chief Engineer, or Branch Manager
Complete for all jobs:
Job name Job no
Dates in field
Next phase of work scheduled

!!! RETURN COPY OF THIS PAGE TO HEALTH AND SAFETY OFFICER !!!

APPENDIX B

SOIL SAMPLING PROTOCOL

SOIL SAMPLING PROTOCOL

The following procedures are followed when sampling soil with the hollow-stem auger drilling technique.

- Continuous flight, hollow-stem augers are used.
- 2. All augers, samplers and downhole equipment are steam cleaned prior to use and between borings. This minimizes the possibility of cross-contamination occurring.
- 3. A registered geologist or other appropriately trained personnel observes the drilling, visually logs the soils, and obtains soil samples at appropriate intervals (usually 5 feet) as determined by field conditions.
- 4. The Unified Soils Classification System (USCS) is utilized to classify the soils. Rocks are classified according to the Colorado School of Mines "Classification of Rocks."
- 5. The soil samples are obtained using a modified California split-spoon sampler, which accommodates two to six sample tubes. Various tubes are utilized to accommodate the different analyses required:

58-0605 Page B-2

Brass Tubes: 2-1/2 by 3 or 6 inches - for all organics and general analyses, excluding copper and zinc.

<u>Stainless Steel Tubes</u>: 2-1/2 by 3 or 6 inches - for all organics and metals analyses excluding chrome and nickel.

- 6. The tubes are scrubbed with a brush and TSP or equivalent cleaning agent, then rinsed with tap water. If required, the tubes are steam cleaned. Tubes are given a final rinse with distilled water and delivered to the drilling site in closed buckets or equivalent to preclude recontamination.
- 7. After the sample tubes are removed from the sampler, the latter is completely disassembled and scrubbed in TSP or equivalent and tap water. The sampler is rinsed with tap water, and distilled water (if required) and reassembled with the required number of clean tubes.
- 8. Unclean tubes are washed with TSP or equivalent solution, rinsed with tap water, etc. as described in 6 above.
- 9. In loose soils, a sand catcher is used to prevent soil from falling out of the sampler.
- 10. The sampler is driven 12 or 18 inches at each sampling.

 Generally, the lowest tube is retained for analysis. The

other tube or tubes are retained for split sampling or as a back-up.

Page B-3

- 11. The sample is logged in. After testing for the presence of combustible gases or volatile organic compounds, the sample is capped with Teflon liners and tight-fitting plastic caps to minimize leaching and cross-contamination. Black vinyl electrical tape is used to tightly secure the caps to the sample tube. The samples are labeled and preserved in clean ice chests containing Blue Ice or equivalent, to keep the samples at or about 4 degrees Celsius.
- 12. The samples are kept in the ice chest until delivered to a State and EPA certified testing laboratory, the same day if physically possible. The undelivered samples are stored or archived in secured Law Environmental sample storage at or about 4 degrees Celsius. A freezer is also available at Law Environmental if freezing samples is required or recommended.
- 13. All samples are accompanied by a chain-of-custody form, documenting the time, date, and person-in-charge since retrieval of the sample from the sampler.
- 14. In case of visual and/or olfactory evidence of contamination, soil cuttings are impounded in drums carrying

cautionary labels. The drums are secured from random contact. Custody of the drums and their content will remain with the client at all times.

- 15. If chemical analysis of the soil indicates the presence of elevated levels of pollutants, then the Client will be informed of the test results and advised as to the lawful means of disposal or detoxification. Upon the written request and authorization by the Client, Law Environmental will organize the disposal or detoxification of the impounded soil in accordance with all applicable Federal, State, County and local regulations.
- 16. The soil sample tube label includes:

Job Number
Boring Number and Depth
Sampling Date
Sampler's Initials
Test to be Performed (if known at the time of sampling).

- 17. An indelible marking pen or a ball-point pen is used to mark the sample tubes.
- 18. A detailed log is kept of all field activities.

SUBSURFACE COMBUSTIBLE GAS OR VOLATILE ORGANIC COMPOUND SAMPLING PROTOCOL

- The contents of one of the sample tubes is placed into a resealable plastic bag. The soil in the bag is broken up and left in the sun for approximately 10 minutes. A hole is then made in the plastic bag.
- The end of the analyzer probe, such as GasTechtor 1238, Foxboro 108 GC, or equivalent, is inserted into the hole, and the Parts Per Million (PPM) or Lower Explosive Limit (LEL) scale read for indications of combustible gas or volatile organic compounds. The reading is taken only after the instrument needle ceases drifting and stabilizes. Readings are recorded on the boring logs.

APPENDIX C

BORING LOGS

N	AAJOR DIVISI	ONS	GROU! SYMBO	TVALAA
		CLEAN GRAVELS	0 0 G	Well graded gravels, gravel-sand mixtures, little or no fines.
	GRAVELS (More than 50% of	(Little or no fines	0 • • Gi	Poorly graded gravels or gravel-sand mixtures little or no fines.
	COORSE fraction is LARGER than the No. 4 sieve size)	GRAVELS WITH FINES	G G	VI Silty gravels, gravel-sand-silt mixtures.
COARSE GRAINED SOILS		(Appreciable amt. of fines)	6/9/ GC	Clayey gravels, gravel-sand-day mixtures.
(Mare than 50% of meterial is LARGER than No. 200 sieve size)	SANDS (More mon 50 % of course fraction is SMALLER inan me No. 4 sieve size)	CLEAN SANDS		Well graded sands, gravelly sands, little or no fines.
		(Little or no fines)	SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES	SM	Silty sands, sand-silt mixtures.
		(Appreciable amt. of fines)	sc	Clayey sands, sand-clay mixtures.
			ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey sills with slight plasticity.
FINE GRAINED SOILS More than 50% of material is SMALLER than No. 200 sieve	SILTS AND CLAYS (Liqued limit LESS than 50)		CL	inarganic clays of low to medium plasticity, gravetly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity .
			мн	Inorganic silts, micoceaus or diatomeceous fine sandy or silty soils, elastic silts.
	SILTS AND CLAYS (Liquid limit GREATER than 50)		СН	Inorganic clays of high plasticity, fat clays,
			ОН	Organic clays of medium to high plasticity, organic silts.
HIGHLY	ORGANIC SO	ILS	P	Peat and other highly organic soils,

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

РА	R	TIC	LE		SIZE		LIMI	TS
SILT OR CLAY			SANO		GRA	VEL.		
		FIME	MEDIUM	COAPE	FINE	COLASE	COBBLES	BOULDERS
	NO. 20	-		10 NO	1.4 14 SIEV		m. (12	ا

Reference:
The Unified Soil Classification System, Cares of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953. (Revised April, 1960):

GRAPHIC LOG LEGEND PAGE 1 of 1



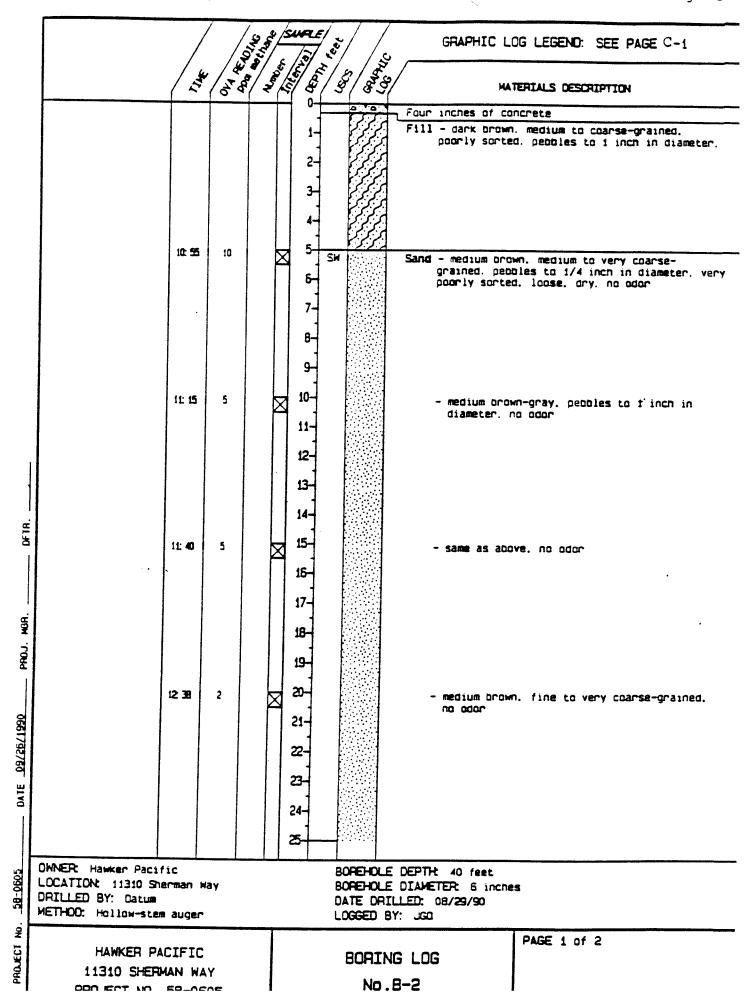
PROJECT No.

			Page C-2
			GRAPHIC LOG LEGENO: SEE PAGE C-1
	THE ST OF	Se Suar Se Se Se Se Se Se Se Se Se Se Se Se Se	MATERIALS DESCRIPTION
		SW	Four inches of concrete
		2-	Sand - medium brown. medium to coarse-grained. poorly sorted. with peoples to 1/2 inch in diam loose. slightly moist, slight solvent odor
	09: 38 350	3- 4- 5- 6-	- color change to medium-light brown. slight solvent odor
	09: 44 300	7- 8- 8- 29- 10- 11-	- medium brown, very poorly sorted, peobles to 1 inch in diameter, solvent odor
DF1R	09: 52 300	12- 13- 14- 20-0-3- 15- SM	Gravel - large gravel lense. approximately 6 inches thick Sand - medium brown. medium to coarse grained. poorly sorted. loose. slightly moist. slight solvent odor
	10: 02 275	17- 18- 19- 20- 21- 22-	- becoming more coarse-grained, peoples to 1/4 inch in diameter, decreasing moisture, dry
Ola ET	10: 02 300	23- 24- 25-	- medium to coarse-grained. slight solvent odor
OWNER: Hawker Pacif: LOCATION: 11310 She DRILLED BY: Lane - METHOD: Hollow-stem	rman Way Qatum	BOREHOLE	DEPTH: 70 feet DIAMETER: 8 inches LED: 08/28/90 : JGO
HAWKER PACIFIC 11310 SHERMAN WAY		BORING	

	`		rage C-
			GRAPHIC LOG LEGEND: SEE PAGE C-1
	THE ST.		MATERIALS DESCRIPTION
	10: 13 400	25- 27- 28- 29- 30- 31- 32-	- coarse-grained, slight solvent odor
	10: 21 400	33- 34- 35- 36-	- medium to coarse-grained, peobles to 1/2 inch in diameter, slight solvent odor
DF1R.	10: 31 400	37- 38- 39- 40- 41-	- pebbles to 1/4 inch in diameter. slight solver odor
	10: 41 350	44- 45- 45- 47-	- becoming medium-grained with some coarse sand. moderately sorted. slight solvent odor
OND ELL	10: 47 60	48- 49- 50-	- peobles to 1/2 inch in diameter, slight solven odor
LOCATION: 11310 Sherman May DRILLED BY: Lane - Datum DATE DRILLED: 08/28/90 METHOD: Hollow-stem auger LOGGED BY: LTD			
HAWKER PACIFIC 11310 SHERMAN WAY PROJECT NO ED-0505		BORING LOG No.8-1	

	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	Page C-
		GRAPHIC LOG LEGEND: SEE PAGE C-1
		MATERIALS DESCRIPTION
	50 SM 51- 52- 53- 53- 54- 55- 55- 55- 57-	- slight solvent odor
	58- 59- 60- 61-	- medium to coarse grained, peobles to 1/4 inch in diameter, slight solvent odor/
į	11: 41 Z50 \(\sum \) 62- 63- 63- 65- 65-	 color change to greyish green to medium brown fine to very coarse-grained, slightly firm, slightly moist, very slight odor
DATE _09/26/1990	70 NOT	- color grey-brown, medium to very coarse-grains loose, dry, slight odor ES Refusal at 70 feet. End of boring at 70 feet. No ground water encountered. Backfills boring with soil to 3 feet then hole-plug.
58-0605 DATE 0	OWNER: Hawker Pacific BOREHOLE DEP LOCATION: 11310 Sherman Way BOREHOLE DIA DRILLED BY: Lane - Catum DATE DRILLED	WETER 8 inches D: 08/28/90
PROJECT NO.	HAWKER PACIFIC 11310 SHERMAN WAY No R-4	PAGE 3 of 3

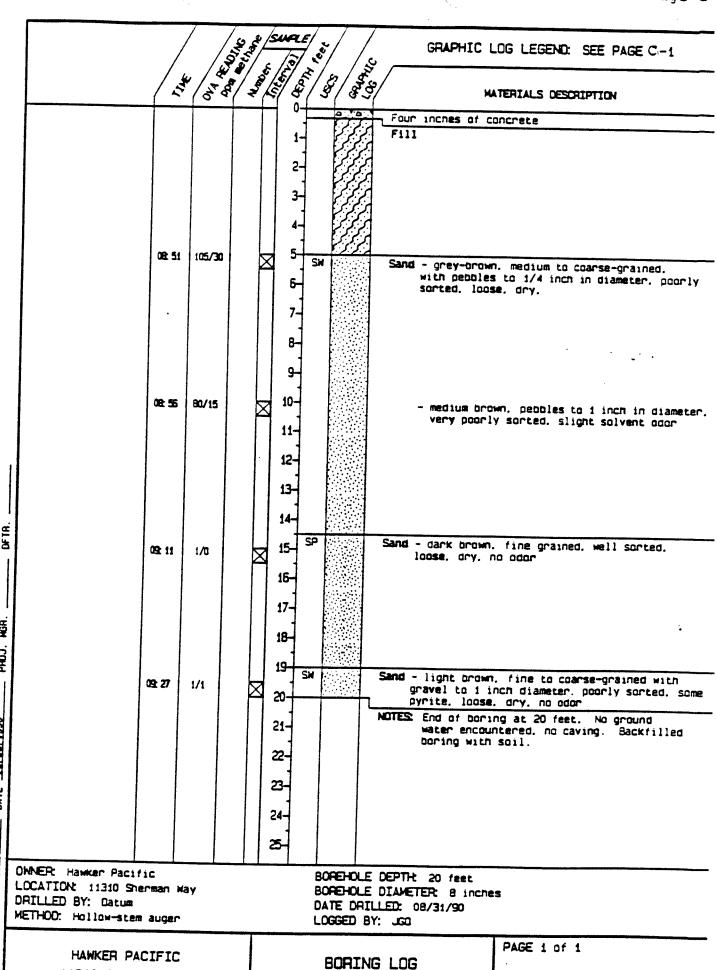
		A CO A	SUPLE		GRAPHIC L	OG LEGENO: SEE PAGE C-1
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	97 8 3	\$ \$\frac{1}{2} \frac{1}{2} \fr		MA	TERIALS DESCRIPTION
	12 01		71-	SM	- ORILL TO 3 Sand - grey-brown	70 FEET. THEN TAKE SAMPLES n. medium to very coarse-grained. ed. loose. dry. slight odor
	13 01	5/5	11 1	SM	grained. Wit in diameter.	y to brown, coarse to fine- in granitic peobles up to 3 inches poorly sorted, angular to subangu no odor detected
			77-		- penetratio	n rate very slow
		NS	79	GM 5 6 6	grained, with	el - brown, very coarse to fine- n pabbles to 1 inch in diameter, d. moderately firm, damp
			81- 82- 83- 84- 85- 86-		encountered	at 80 feet. No ground water 1. Backfilled boring with soil and th concrete.
59-0605	OWNER: Hawker Pacific LOCATION: 11310 Sherman Way DRILLED BY: Datum METHOO: Hollow-stem auger			80REHOLE	DEPTH: 80 feet DIAMETER: 8 inche LED: 08/31/90 /: ASH	! S
PROJECT NO.	HAWKER PACIFIC 11310 SHERMAN WAY			BORINO No. B		PAGE 1 of 1



DOO ECT IN EQ. OCCE

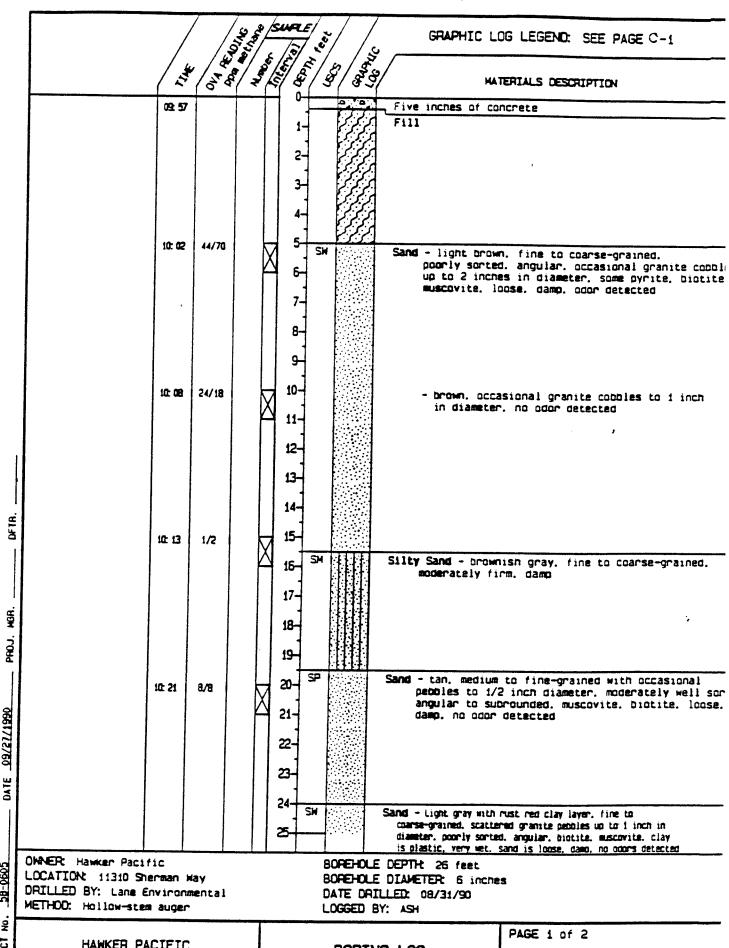
	/		
		Signal Superior	GRAPHIC LOG LEGEND: SEE PAGE C -1
			MATERIALS DESCRIPTION
	12.59	26- 27- 28- 29-	- peoples to 1/4 inch in diameter, no oppr
	01: 25 t		- as above, peobles to 1 inch in diameter
	022 000 C	35- 36- 37- 38- 39-	- peobles to 1/4 inch in diameter, no odor
DATE 09/26/1990 PROJ. MGR.	·	40 NOT	ESE End of boring at 40 feet. No ground water encountered. Backfilled boring with so and patched with concrete.
58-0605	OWNER: Hawker Pacific LOCATION: 11310 Sherman Way DRILLED BY: Datum METHOO: Hollow-stem auger	BOREHOLE DEF BOREHOLE DIA DATE DRILLET LOGGED BY:	METER: 5 inches D: 08/28/90
PROJECT NO.	HAWKER PACIFIC 11310 SHERMAN WAY	BORING L	

		· .		rage C-
		/ /	Se Suae Se Se GRAPHIC LOG LEGENO: SEE PAGE C-1	
		A ST.		MATERIALS DESCRIPTION
			1555	One inch of concrete
			1- 2- 3- 4-	Fill - dark brown. heavy odor
	10: 🛣	10	5 SM 6- 7- 8-	Sand - grey-brown, medium to very coarse-grained, with peobles to 1/2 inch in diameter, poorly sorted, loose, dry, heavy chlorinated solvent oc
	11: 15	5	9- 10- 11- 12- 13-	- medium brown, peobles to 1 inch in diameter, slightly moist, heavy chlorinated solvent odor
DFTR	11: 40	5	14- × 15- 16- 17-	- same as above
DATE09/27/1990 PPOJ. HGR.	12:38	2	18- 19- 20- 21- 22- 23-	- medium-light brown, dry, slight chlorinated odd NOTES End of boring at 20 feet. No ground water encountered, no caving. Backfilled boring with soil.
	MNERt Hawker Pacific		24- 25-	DEDTI- 20 (A)
28-96 DE	OCATION: 11310 Sherman RILLED BY: Catum ETHOO: Hollow-stem auger		80 REHO LE	DEPTH: 20 feet DIAMETER: 6 inches LED: 08/29/90 : UGO
PROJECT NO.	HAWKER PACIFIC 11310 SHERMAN W		BORING	



No R-4

11310 SHERMAN WAY



PROJECT NO. 5

HAWKER PACIFIC 11310 SHERMAN WAY PROJECT NO. 58-0605 BORING LOG No.8-5

	SWELE GAN	APHIC LOG LEGEND: SEE PAGE C-1
10. 38 1/4	SWALE SHOW SHOW SHOW SHOW SHOW SHOW SHOW SHOW	MATERIALS DESCRIPTION
	25 NOTES: Ed. 27- 28- 29- 30- 31- 32- 33- 34- 35- 36- 37- 38- 39- 40- 41- 42- 45- 46- 47- 48- 49- 50- 50-	nd of boring at 26 feet. No ground ster encountered, no caving. Backfilled aring with soil, patched with concrete.
OWNER: Hawker Pacific LOCATION: 11310 Sherman Way ORILLED BY: Lane Environmental METHOO: Hollow-stem auger	BOREHOLE DEPTH: 26 BOREHOLE DIAMETER: DATE DRILLED: 08/3 LOGGED BY: ASH	5 inches
HAWKER PACIFIC 11310 SHERMAN WAY	BORING LOG	PAGE 2 of 2

Nn R-5

11310 SHERMAN WAY

			, 	, ,		,		
		/	/ /	\$ \$ \$ \ <u>\$</u>	VALE		/ /.	GRAPHIC LOG LEGENO: SEE PAGE C -1
				9 8 S			7 8 S	WATERTAL C. COMPANY
			13.4	× 100	0	/ 3	/ & ~	
		11: 04			1-		77.	Cone unch of concrete Fill
					2-			
							بربربر	
					3-			
					4-			
		11: 12	1/2	ΙМ	5	SW		Sand - light grey to grey, fine to coarse-grained.
					6-			poorly sorted, with clay layer, (clay is brown, plastic, damp, with silt and fine sand) sand has
					7-			peoples up to 1 inch in diameter. loose. damp. no odor
					8-			
					9-			
					10-			
		11: 19	2/2.5		4			 color change to grey brown, minor clay layer, (clay is brown, with silt and fine sand, plast
					11-			na odar
ı					12-			
					13-			
ا نہ					14-			
OF TR.		11: 27	2/2.5		15-	ŀ		- color change to brown, fragments of cobbles
				Ă	15-			(broken by sampler)
					17-			
GB.					18-			>
PROJ. MGR.					4			
Œ		11: 31	2/1.5	M	19-			- color change to grey-brown, some silt, peobles
				H	20+	- -		NOTES End of boring at 20 feet. No ground
966					21-			water encountered, no caving. Backfilled boring with soil.
DATE 09/27/1990					22-			55.5%
8					23-			
DATE		ĺ			24-			
					25-			
59-0605	OWNER: Hawker Pacif LOCATION: 11310 She	erman	May					E DEPTH: 20 feet E DIAMETER: 6 inches
-58	DRILLED BY: Lang - METHOD: Hollow-stem	Heste	rn			D/	ATE DR	ILLED: 08/31/90 BY: ASH
₹		3						PAGE 1 of 1
PROJECT NO	HAWKER PA						BORI	NG LOG
ğ	11310 SHERN	M MAP	AY	.]			11-	

				•
		S. S. S.	GRAPHIC LO	G LEGEND: SEE PAGE C -1
	Z. C.	Z & .	GRAPHIC LO	ERIALS DESCRIPTION
			1- Cone inch of concre Fill 2- 3- 4-	te
	09: 03	1/0	moderately po	n. medium to very coarse-grained. orly sorted, with peoples to 1/4 i loose, dry, no odor
<u>e</u>		a/a	10- 11- 12- 13- 14-	1/2 inch in diameter. poorly sorter
PROJ. MGR		1/0	15 medium to cono odar 16- 17- 18- 19-	parse-grained, moderately sorted.
DATE 09/27/1990	09: 27		- as above NOTES End of borin	g at 20 feet. No ground tered, no caving. Backfilled soil.
58-0605	OWNER: Hawker Pacific LOCATION: 11310 Sherman May DRILLED BY: Lane - Western METHOO: Hollow-stem auger	,	BOREHOLE DEPTH: 20 feet BOREHOLE DIAMETER: 8 inches DATE DRILLED: 08/31/90 LOGGED BY: JGO	
PROJECT NO.	HAWKER PACIFIC 11310 SHERMAN WAY		BORING LOG	PAGE 1 of 1

APPENDIX D

LABORATORY ANALYSES OF SOIL SAMPLES

DATE RECEIVED: 08/29/90 DATE REPORTED: 09/05/90

PAGE 1 OF 6

LAB NUMBER: 200524

CLIENT: LAW ENVIRONMENTAL, INC.

REPORT ON: FOUR SOIL SAMPLES

PROJECT #: 58-0605

LOCATION: HAWKER PACIFIC

RESULTS: SEE ATTACHED

Reviewed By

Laboratory Director



LABORATORY NUMBER: 200524

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605

LOCATION: HAWKER PACIFIC

DATE RECEIVED: 08/29/9

DATE ANALYZED: 08/31-0 DATE REPORTED: 09/05/9

PAGE 2 OF 6

METHOD: EPA 8015 (MODIFIED)

TOTAL VOLATILE HYDROCARBONS AS GASOLINE IN SOILS & WASTES

EXTRACTION: EPA 5030 PURGE & TRAP

LAB ID	SAMPLE	ID			GA:	H AS SOLINE g/Kg)
1	B-1-9				ND	(500)
2	B-1-29					(500)
3	B-1-49					(500)
4	B-1-69				ND	(500)
ND = NOT	DETECTED;	LIMIT OF	DETECTION	IN	PARENTHESES.	

QA/QC DATA SUMMARY:

Precision (Relative % Difference): Accuracy (Spike % Recovery):

101



LABORATORY NUMBER: 200524-1

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-1-9 DATE RECEIVED: 08/29/ DATE ANALYZED: 08/31/ DATE REPORTED: 09/05/

PAGE 3 OF 6

METHOD: EPA 8240
VOLATILE ORGANICS IN SO

VOLATILE ORGA	NICS IN SOIL		
COMPOUND	RESULT	PQL	
Chloromethane	ug	/Kg	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylone chlomida	ND	10	
Methylene chloride Acetone	ND	5	
Carbon disulfide	ND	10	
Trichloneflusers	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	5	
1,1-Dichloroethane	ND	5	
cis-1,2-Dichloroethene	ND	5	
rans-1,2-Dichloroethene	ND	5	
Chloroform	ND	5	
Freon 113	ND	5	
,2-Dichloroethane	ND	5	
2-Butanone	ND	10	
,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
inyl acetate	ND	10	
romodichloromethane	ND	5	
,2-Dichloropropane	ND	5	
is-1,3-Dichloropropene	ND	5	
richloroethylene	ND	5 5 5 5 5	
ibromochloromethane	ND	5	
,1,2-Trichloroethane	ND	5	
enzene	ND	5	
rans-1,3-Dichloropropene	ND	5	
-Chloroethylvinyl ether	ND	10	
romoform	ND	5	
-Hexanone	ND	10	
-Methyl-2-pentanone	ND	10	
1,2,2-Tetrachloroethane	ND	5	
trachloroethene	ND	5	
pluene	TRACE (~4)	5	
lorobenzene	ND	5	
hyl benzene	ND	5	
yrene	ND	5	
tal xylenes	ND	5	
/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION	LIMI
2-Dichloroethane-d4	 97 %		
luene-d8	100 %		
omofluorobenzene	96 %		



DATE RECEIVED: 08/29/:

LABORATORY NUMBER: 200524-2

CLIENT: LAW ENVIRONMENTAL, INC. PROJECT #: 58-0605

SAMPLE ID: B-1-29

DATE ANALYZED: 08/31/1 DATE REPORTED: 09/05/1

PAGE 4 OF 6

METHOD: EPA 8240

COMPOUND	RESULT	PQL	
	ug/	Kg	
Chloromethane	ND	10	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylene chloride	ND	5	
Acetone	ND	10 `	
Carbon disulfide	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	5	
1,1-Dichloroethane	ND	5	
cis-1,2-Dichloroethene	ND	5	
trans-1,2-Dichloroethene	ND	5	
Chloroform		5	
Freon 113	ND	5	
1,2-Dichloroethane	ND	5	
2-Butanone	ND	5	
	ND	10	
1,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
/inyl acetate	ND	10	
Bromodichloromethane	ND	5	
1,2-Dichloropropane	ND	5	
cis-1,3-Dichloropropene	ND	5	
richloroethylene	ND	5	
)ibromochloromethane	ND	5	
.,1,2-Trichloroethane	ND	5	
enzene	ND	5 5 5	•
rans-1,3-Dichloropropene	ND	5	
-Chloroethylvinyl ether	ND	10	
romoform	ND	5	
-Hexanone	ND	10	
-Methyl-2-pentanone	ND	10	
,1,2,2-Tetrachloroethane	ND	5	
etrachloroethene	ND	5	
oluene	8	5	
hlorobenzene	ND	5	
thyl benzene		5 5	
tyrene	ND		
	ND	5	
otal xylenes	ND	5	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION	LIMI
,2-Dichloroethane-d4	99 %		
,2-Dichloroethane-d4 oluene-d8	99 ዩ 101 ዩ		



LABORATORY NUMBER: 200524-3 CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-1-49

DATE RECEIVED: 08/29/9 DATE ANALYZED: 08/31/9
DATE REPORTED: 09/05/9

PAGE 5 OF 6

METHOD: EPA 8240

VOLATILE ORGA	NICS IN SOIL	
COMPOUND	RESULT	PQL
Chloromethane	ug	 /Kg
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	10
Acetone	ND	5
Carbon disulfide	ND	10
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5 5 5 5 5 5 5
1,1-Dichloroethane	ND	5
Cis-1 2-Dichlaracy	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene Chloroform	ND	5
Freon 113	ND	5
	ND	5
1,2-Dichloroethane 2-Butanone	ND	5
	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
richloroethylene	ND	5
Dibromochloromethane	ND	5
,1,2-Trichloroethane	ND	5 5 5 5
enzene	ND	5
rans-1,3-Dichloropropene	ND	5
-Chloroethylvinyl ether	ND	10
romoform	ND	5
-Hexanone	ND	10
-Methyl-2-pentanone	ND	10
, 1, 2, 2-Tetrachloroethane	ND	5
etrachloroethene	ND	5
oluene	5	5
nlorobenzene	ND	5
thyl benzene	ND	5
Lyrene	ND	5
otal xylenes	ND	5
QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION LIMIT
2-Dichloroethane-d4	 97 %	
luene-d8	102 %	
omofluorobenzene	95 %	
	33 70	



LABORATORY NUMBER: 200524-4

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-1-69 DATE RECEIVED: 08/29/9
DATE ANALYZED: 08/31/9
DATE REPORTED: 09/05/9

PAGE 6 OF 6

METHOD: EPA 8240

COMPOUND	RESULT	PQL	
Chlana		 r/Kg	
Chloromethane	ND	•	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylene chloride	ND	10	
Acetone	ND	5	
Carbon disulfide	ND	10	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene		5	
l,l-Dichloroethane	ND	5	
Cis-1,2-Dichloroethene	ND	5	
rans-1,2-Dichloroethene	ND	5	
Chloroform	ND	5	
reon 113	ND	5	
,2-Dichloroethane	ND	5	
-Butanone	ND	5	
,1,1-Trichloroethane	ND	10	
arbon tetrachloride	ND	5	
inyl acetate	ND	5	
romodichloromethane	ND	10	
,2-Dichloropropane	ND	5	
is-1,3-Dichloropropene	ND	5	
richloroethylene	ND	5	
ibromochloromethane	ND	5 5 5 5 5	
1 2-Trichlement	ND	5	
,1,2-Trichloroethane	ND	5	
	ND	5	
rans-1,3-Dichloropropene	ND	5	
-Chloroethylvinyl ether	ND	10	
comoform	ND	5	
Hexanone	ND	10	
Methyl-2-pentanone	ND	10	
1,2,2-Tetrachloroethane	ND	5	
trachloroethene	ND		
luene	8	5	
lorobenzene	ND	Š	
hyl benzene	ND	5	
yrene	ND	5	
tal xylenes	ND	5 5	
QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	-	LIMIT
2-Dichloroethane-d4	 96		
luene-d8			
pmofluorobenzene	101 %		

LAW ENVIRONMENTAL, INC.

3420 N. San Fernando Blvd. Sulte 200 Burbank, Callfornia 91504 (818) 646-0214

CHAIN OF CUSTODY RECORD

8/24/2010-120 = Romerke **P**•!• 子 Analyses Required lab tog Number Encrionizintal Compeny Number of 510 Supled by Julie Oborne Project Number 58-0005 Sample Description B-1-49 B-1-69 13-1-29 0 aw Enviconmenta Signature 30 8 50 SČ awker Pacific 1774 15.6 dis2-8 Report Attention
Sample Date Ilm Sempled Sempled 14.01 12:20 8-28 to 13 8.259 04/52-8 Relloquished by Rellogulahed by Relinquished by Project Name Cilent Name Received by Received by Hece ved by Marker 3

Samples are discarded 30 days after results are reported, unless other arrangements are made.

*AQ • Aqueous; HA • Honequeous; St • Studge; GV • Ground Water; SO • Soll; PE • Petroleum; OJ • Other

DATE RECEIVED: 09/04/90 DATE REPORTED: 09/10/90

PAGE 1 OF 10

LAB NUMBER: 200541

CLIENT: LAW ENVIRONMENTAL, INC.

REPORT ON: EIGHT SOIL SAMPLES

PROJECT #: 58-0605

LOCATION: HAWKER PACIFIC

RESULTS: SEE ATTACHED

Reviewed By

Laboratory Director



LABORATORY NUMBER: 200541

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605

LOCATION: HAWKER PACIFIC

DATE RECEIVED: 09/04/9
DATE ANALYZED: 09/06/9

DATE REPORTED: 09/10/9

PAGE 2 OF 10

METHOD: EPA 8015 (MODIFIED) EXTRACTABLE PETROLEUM HYDROCARBONS IN SOIL EXTRACTION: DHS LUFT PROCEDURE

LAB	I	D 	SAMPLE I	D 							DIE:			
	1		B-4-5			ND	(10)	ND	(10)	110	ŧ		
	2		B-4-20			ND	(10)	ND	(10)	ND	(10)	
	3		B-5-5			ND	(!	50)	ND	(50)	7,30	0	**	
	4		B-5-25			ND	(:	10)	ND	(10)	88**	*		
	5		B-6-20			ND	(:	10)	ND	(10)	ND	(10)	
	6		B-8-5			ND	(:	LO)	ND	(10)	ND	(10)	
	7		B-8-20			ND	(]	LO)	ND	(10)	ND	(10)	
	8		B1A-74'			ND	(1	.0)	ND	(10)	ND	(10)	
* * * * * *		HYDR	OCARBONS OCARBONS OCARBONS	IN	DIESEL	RANGE	,	DOES	NOT	MATCH	STD			
= QV	N	OT D	ETECTED;	PRI	ACTICAL	QUANT	ΙΊ	'ATION	1 LII	MIT IN	PAR	Εì	NTHESES.	7

QA/QC	DATA	SUMMARY:
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Precision (Relative % Difference): 18
Accuracy (Spike % Recovery): 83



LABORATORY NUMBER: 200541-1 CLIENT: LAW ENVIRONMENTAL, INC. PROJECT #: 58-0605

SAMPLE ID: B-4-5

DATE RECEIVED: 09/04/9 DATE ANALYZED: 09/04-0 DATE REPORTED: 09/10/9

PAGE 3 OF 10

METHOD: EPA 8240 VOLATILE ORGANICS IN SOIL

COMPOUND	RESULT	PQL	
	ug/	 Kg	
Chloromethane	ND	10	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylene chloride	ND	5	
Acetone	ND	10	
Carbon disulfide	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	5	
1,1-Dichloroethane	ND	5	
cis-1,2-Dichloroethene	ND	5	
trans-1,2-Dichloroethene	ND	5	
Chloroform	ND	5	
Freon 113	ND	5	
1,2-Dichloroethane	ND	5	
2-Butanone	ND	10	
1,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
Vinyl acetate	ND	10	
Bromodichloromethane	ND	5	
1,2-Dichloropropane	ND	5	
cis-1,3-Dichloropropene	ND	5	
Trichloroethylene	ND	5 5 5	
Dibromochloromethane	ND	5	
1,1,2-Trichloroethane		5	
Benzene	ND	5	;
	ND	5	
trans-1,3-Dichloropropene	ND	5	
2-Chloroethylvinyl ether	ND	10	
Bromoform	ND	5	
2-Hexanone	ND	10	
1-Methyl-2-pentanone	ND	10	
1,1,2,2-Tetrachloroethane	ND	5	
etrachloroethene	* 370	5	
Coluene	40	5	
Chlorobenzene	ND	5	
Ethyl benzene	ND	5	
styrene	ND	5	
otal xylenes	ND	5	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION	LIMI
,2-Dichloroethane-d4 * 1:5 DI	L 101 %		
oluene-d8	103 %		
romofluorobenzene	93 %		



LABORATORY NUMBER: 200541-2

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-4-20 DATE RECEIVED: 09/04/ DATE ANALYZED: 09/04/ DATE REPORTED: 09/10/

PAGE 4 OF 10

METHOD: EPA 8240 VOLATILE ORGANICS IN SO

COMPOUND	RESULT	PQL	
	ua	 /Kg	
Chloromethane	ND	10	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylene chloride	ND	5	
Acetone	ND	10	
Carbon disulfide	ND		
Trichlorofluoromethane	ND	5 5 5 5 5 5 5	
1,1-Dichloroethene	ND	5	
1,1-Dichloroethane	ND	5	
cis-1,2-Dichloroethene	ND	5	
rans-1,2-Dichloroethene	ND	5	
Chloroform	ND	5	
Freon 113	ND	5	
l,2-Dichloroethane	ND	5	
2-Butanone	ND	10	
1,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
Vinyl acetate	ND	10	
Bromodichloromethane	ND	5	
,2-Dichloropropane	ND	5	
is-1,3-Dichloropropene	ND	5	
richloroethylene	ND	5	
ibromochloromethane	ND	5	
,1,2-Trichloroethane	ND	5	
enzene	ND	5	,
rans-1,3-Dichloropropene	ND	5	
-Chloroethylvinyl ether	ND	10	
romoform	ND	5	
-Hexanone	ND	10	
-Methyl-2-pentanone	ND	10	
,1,2,2-Tetrachloroethane	ND	5	
etrachloroethene	26	5	
oluene	14	5	
hlorobenzene	ND	· 5	
thyl benzene	ND	5 5	
tyrene	ND ND	5	
otal xylenes	ND	5	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	. QUANTITATION	LIMI
2-Dichloroethane-d4	 97		
oluene-d8	102 %		



LABORATORY NUMBER: 200541-3

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-5-5 DATE RECEIVED: 09/04/90 DATE ANALYZED: 09/04-05 DATE REPORTED: 09/10/90

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METHOD: EPA 8240 VOLATILE ORGANICS IN SOIL

COMPOUND		RESULT	PQL	
		ug/I	 {g	
Chloromethane		ND	10	
Bromomethane		ND	10	
Vinyl chloride		ND	10	
Chloroethane		ND	10	
Methylene chloride		ND	5	
Acetone		ND	10	
Carbon disulfide		ND	5	
Trichlorofluoromethane		ND	5	
1,1-Dichloroethene		42	5 5 5 5 5 5 5	
1,1-Dichloroethane		28	5	
cis-1,2-Dichloroethene		ND	5	
trans-1,2-Dichloroethene		ND	5	
Chloroform		ND	5	
Freon 113		ND	5	
1,2-Dichloroethane		ND	5	
2-Butanone		ND	10	
1,1,1-Trichloroethane	*	290		
Carbon tetrachloride		ND	5 5	
Vinyl acetate		ND	10	
Bromodichloromethane		ND		
1,2-Dichloropropane		ND	5	
cis-1,3-Dichloropropene		ND	5 5 5 5 5 5 5 5 5 5 5	
Trichloroethylene	*	260	5 .	
Dibromochloromethane		ND	5	
1,1,2-Trichloroethane		ND	5	
Benzene		ND	5	`*
			5	
rans-1,3-Dichloropropene		ND	10	
2-Chloroethylvinyl ether		ND		
Bromoform		ND	5	
2-Hexanone		ND	10	
1-Methyl-2-pentanone		ND	10	
,1,2,2-Tetrachloroethane		ND	5	
Tetrachloroethene	~ ~	130,000	5	
Coluene		150	5	
Chlorobenzene		ND	5	
Cthyl benzene		ND	5	
Styrene		ND	5	
otal xylenes		ND	5 	
A/QC SUMMARY: SURROGATE RECOVERIE	S PQL	= PRACTICAL	QUANTITATION	LIMI'
	:5 DIL			
oluene-d8 ** 1:10	00 DIL	96 %		
romofluorobenzene		75 %		



LABORATORY NUMBER: 200541-4 CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-5-25 DATE RECEIVED: 09/04/ DATE ANALYZED: 09/05/ DATE REPORTED: 09/10/

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METHOD: EPA 8240 VOLATILE ORGANICS IN SOIL

VOLATILE ORGAN	ICS IN SOIL		_
COMPOUND	RESULT	PQL	
	ug/	 Kg	
Chloromethane	ND	10	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylene chloride	ND	5	
Acetone	ND	10	
Carbon disulfide	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	5	
1,1-Dichloroethane	ND	5	
cis-1,2-Dichloroethene	ND	5	
trans-1,2-Dichloroethene	ND	5 5 5 5	
Chloroform	ND	5	
Freon 113	ND	5 5	
1,2-Dichloroethane	ND	5	
2-Butanone	ND	10	
1,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
Vinyl acetate	ND	10	
Bromodichloromethane	ND		
1,2-Dichloropropane	ND	5	
cis-1,3-Dichloropropene		5 5 5	
Frichloroethylene	ND	5	
Dibromochloromethane	ND	<u> </u>	
1,1,2-Trichloroethane	ND	5	
	ND	5	;
Benzene	ND	5	
rans-1,3-Dichloropropene	ND	5	
2-Chloroethylvinyl ether	ND	10	
Bromoform	ND	5	
2-Hexanone	ND	10	
-Methyl-2-pentanone	ND	10	
,1,2,2-Tetrachloroethane	ND	5	
etrachloroethene	16	5	
oluene	TRACE (~3)	5	
hlorobenzene	ND	5	
thyl benzene	ND	5	
tyrene	ND	5	
otal xylenes	ND	5	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION	LIMIT
,2-Dichloroethane-d4	 105 %		
oluene-d8	103 %		
romofluorobenzene	97 %		
	5 . 3		



DATE RECEIVED: 09/04/ DATE ANALYZED: 09/04/

LABORATORY NUMBER: 200541-5

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-6-20

DATE REPORTED: 09/10/ PAGE 7 OF 10 METHOD: EPA 8240

VOLATILE ORGAN	ICS IN SOIL	
COMPOUND	RESULT	PQL
	ug/F	
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acetone	ND	10
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5 5 5 5 5 5 5
2-Butanone		
	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethylene	ND	5
Dibromochloromethane	ND	5
l,1,2-Trichloroethane	ND	5
Benzene	ND	5
rans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
I-Methyl-2-pentanone	ND	10
.,1,2,2-Tetrachloroethane	ND	5
Cetrachloroethene	ND	5
Coluene	ND	5
Chlorobenzene	ND	5
thyl benzene	ND	5
tyrene	ND	5
otal xylenes	ND	5
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION LIMIT
,2-Dichloroethane-d4	91 %	
oluene-d8	102 %	
romofluorobenzene	96 %	



LABORATORY NUMBER: 200541-6

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-8-5

METHOD: EPA 8240

	_	
DATE	RECEIVED:	09/04/
DATE	ANALYZED:	09/04/
DATE	REPORTED:	09/10/
PAGE	8 OF 10	

44.5.4		
COMPOUND	RESULT	PQL
Ch 1	ug/	Kg
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acetone	ND	10
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
rans-1,2-Dichloroethene	ND	5
Chloroform	ND	5 5 5 5 5 5 5 5 5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
,2-Dichloropropane	ND	5
is-1,3-Dichloropropene	ND	5
richloroethylene	ND	5
ibromochloromethane	ND	5
,1,2-Trichloroethane	ND	5 .
enzene	ND	5 5
rans-1,3-Dichloropropene		
-Chloroethylvinyl ether	ND	5
romoform	ND	10
-Hexanone	ND	5
	ND	10
-Methyl-2-pentanone	ND	10
,1,2,2-Tetrachloroethane	ND	5
etrachloroethene	ND	5
oluene	13	5
nlorobenzene	ND	5
chyl benzene	ND	5
yrene	ND	5
otal xylenes	ND	5
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION LIMIT
2-Dichloroethane-d4	90 %	
luene-d8		
omofluorobenzene	100 %	



LABORATORY NUMBER: 200541-7 CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-8-20

METHOD: EPA 8240

VOLATILE ORGANICS IN SOIL

DATE RECEIVED: 09/04/9 DATE ANALYZED: 09/05/9 DATE REPORTED: 09/10/9 PAGE 9 OF 10

VOLATILE ORGANI	CS IN SOIL	
COMPOUND	RESULT	PQL
	ug/K	(g
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acetone .	ND	10
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5 5 5 5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5 5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethylene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5 5 5 5 5 5
Benzene	ND	5
rans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
1-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Setrachloroethene	ND	5
Coluene	ND	5
Chlorobenzene	ND	5 5
Sthyl benzene	ND	5
Styrene	ND	5
otal xylenes	ND	5
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION LIMIT
,2-Dichloroethane-d4	92 %	
oluene-d8	101 %	
	35 9	

QA/QC SUMMARY: S	URROGATE RECOVERIES	PQL = PRACT	ICAL QUANTITATION	LIMIT
1,2-Dichloroetha Toluene-d8 Bromofluorobenze		92 101 95	95	



LABORATORY NUMBER: 200541-8

CLIENT: LAW ENVIRONMENTAL, INC. PROJECT #: 58-0605

SAMPLE ID: B1A-74.

Toluene-d8

Bromofluorobenzene

METHOD: EPA 8240

DATE RECEIVED: 09/04/ DATE ANALYZED: 09/05/ DATE REPORTED: 09/10/

PAGE 10 OF 10

COMPOUND	RESULT	PQL	
Chloromethane	ug/	_	
	ND	10	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylene chloride	ND	5	
Acetone .	ND	10	
Carbon disulfide	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	5	
1,1-Dichloroethane	ND	5	
cis-1,2-Dichloroethene		5	
trancel 2 Dichlosethere	ND	5 5 5 5 5 5 5 5	
trans-1,2-Dichloroethene	ND	5	
Chloroform	ND	5	
Freon 113	ND	5	
1,2-Dichloroethane	ND	5	
2-Butanone	ND	10	
1,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
Vinyl acetate	ND	10	
Bromodichloromethane	ND	5	
1,2-Dichloropropane			
rical 3-Dichloronana	ND	5	
cis-1,3-Dichloropropene	ND	5 · 5 5	
Trichloroethylene	ND	5	
Dibromochloromethane	ND	5	
.,1,2-Trichloroethane	ND	5	
Benzene	ND	5	,
rans-1,3-Dichloropropene	ND	5	
-Chloroethylvinyl ether	ND	10	
romoform	ND	5	
-Hexanone	ND	10	
-Methyl-2-pentanone	ND	10	
,1,2,2-Tetrachloroethane	ND	5	
etrachloroethene	ND	5	
oluene	TRACE (~4)	5	
hlorobenzene	ND	5	
thyl benzene	ND	5	
tyrene	ND	5	
otal xylenes	ND	5	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION	LIMIT
,2-Dichloroethane-d4	90 ક		-
nluana-de	102 9		

102 %

93 %

33 LAW ENVIRONMENTAL, INC. 3469 N. San Fernando Blvd. 3465-200 Burbark, Callfornia 91504 (818) 848-0214

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*AQ - Aqueous; NA - Honsqueous; St - Sludge; GV - Ground Water; SQ - Soll; PE - Petroleun; OF - Other Samples are discarded 30 days after results are reported, unless other arrangements are made. Nazardous samples will be returned to cilent or disposed of at cilent expense.

BASELAW ENVIRONMENTAL, INC. Mee N. San Fernando Blvd. 4414-208 Burbank, Callfornia 91504 (818) 848-8214

RECORD CUSTODY 0 F CHAIN

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= 2-6-6 2007 ronmertas 9-4-90 • WEITS + TOMPENS Company (NOIE: Semples are discarded 30 days after results are reported, unless other arrangements are made. Relinquished by hellingulahed by helloquished by Received by Received by Received by

Signature

*AQ • Aqueous; NA • Honaqueous; SL • Sludge; GV • Ground Water; SQ • Suff; PF • Patrolaiss OT • Other

DATE RECEIVED: 08/30/90 DATE REPORTED: 09/13/90

PAGE 1 OF 8

LAB NUMBER: 200529

CLIENT: LAW ENVIRONMENTAL, INC.

REPORT ON: SIX SOIL SAMPLES

PROJECT #: 58-0605

LOCATION: HAWKER PACIFIC

RESULTS: SEE ATTACHED

Reviewed By

Laboratory Director

Dankatan iste



LABORATORY NUMBER: 200529

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605

LOCATION: HAWKER PACIFIC

DATE RECEIVED: 08/30/90

DATE ANALYZED: 09/12/90 DATE REPORTED: 09/13/90

PAGE 2 OF 8

METHOD: EPA 8015 (MODIFIED) EXTRACTABLE PETROLEUM HYDROCARBONS IN SOIL EXTRACTION: DHS LUFT PROCEDURE

LAB	ID	SAMPLE.ID		OLINE g/Kg)		ROSENE g/Kg)		ESEL g/Kg)
	1	B-2-5	ND	(10)	ND	(10)	ND	(10)
	2	B-2-20	ND	(10)	ND	(10)	ND	(10)
	3	B-2-30	ND	(10)	ND	(10)	ND	(10)
	4	B-2-40	ND	(10)	ND	(10)	ND	(10)
	5	B-3-10	ND	(10)	ND	(10)	ND	(10)
	6	B-3-20	ND	(10)	ND	(10)	ND	(10)

ND = NOT DETECTED; PRACTICAL QUANTITATION LIMIT IN PARENTHESES.

QA/QC DATA SUMMARY:

Precision (Relative % Difference):

5

Precision (Relative % Difference): 5
Accuracy (Spike % Recovery): 95



LABORATORY NUMBER: 200529-1

CLIENT: LAW ENVIRONMENTAL, INC. PROJECT #: 58-0605

SAMPLE ID: B-2-5

DATE RECEIVED: 08/30/ DATE ANALYZED: 09/04/! DATE REPORTED: 09/13/

PAGE 3 OF 8

METHOD: EPA 8240

VOLATILE ORGA	MICS :	IN SOIL		
COMPOUND		RESULT	PQL	
Chlamanarha		ug/	 ′Kg	
Chloromethane		ND	10	•
Bromomethane		ND	10	
Vinyl chloride		ND	10	
Chloroethane		ND	10	
Methylene chloride Acetone		ND	5	
Carbon disulfide		ND	10	
Trichlorofluoromethane		ND	5	
		ND	5	
1,1-Dichloroethene		ND	5	
1,1-Dichloroethane		ND	5 5	
cis-1,2-Dichloroethene		ND	5	
trans-1,2-Dichloroethene		ND	5 5	
Chloroform		ND	5	
Freon 113		ND	5	•
1,2-Dichloroethane		ND	5	
2-Butanone		ND	10	
1,1,1-Trichloroethane		ND	5	
Carbon tetrachloride		ND	5	
Vinyl acetate		ND	10	
Bromodichloromethane		ND	5	
,2-Dichloropropane		ND	5 .	
cis-1,3-Dichloropropene		ND	5	
richloroethylene		ND	5 5 5	
bromochloromethane		ND	5	
,1,2-Trichloroethane		ND	5	
Benzene		ND	5	•
rans-1,3-Dichloropropene		ND	5	
-Chloroethylvinyl ether		ND	10	
romoform		ND	5	
-Hexanone		ND	10	
-Methyl-2-pentanone		ND	10	
,1,2,2-Tetrachloroethane		ND	5	
etrachloroethene	*	450	5	
oluene		70	5	
hlorobenzene		ND	5	
thyl benzene		ND	5	
tyrene		ND	5	
otal xylenes		ND	5	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL	= PRACTICAL	QUANTITATION	LIMI
2-Dichloroethane-d4		 98 %		
luene-d8		110 %		
comofluorobenzene		87 %		
		9, 0		

NOTE 1:10 Dilution.



LABORATORY NUMBER: 200529-2

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-2-20

METHOD: EPA 8240

DATE RECEIVED: 08/30/90
DATE ANALYZED: 09/04/90
DATE REPORTED: 09/13/90

DATE REPORTED: 09/13/90
PAGE 4 OF 8

VOLATILE ORGANICS IN SOIL COMPOUND RESULT PQL --ug/Kg--Chloromethane 10 ND Bromomethane ND 10 Vinyl chloride ND 10 Chloroethane ND 10 Methylene chloride ND 5 Acetone ND 10 Carbon disulfide ND Trichlorofluoromethane ND 5 1,1-Dichloroethene 5 ND 1,1-Dichloroethane ND 5 cis-1,2-Dichloroethene 5 ND trans-1,2-Dichloroethene ND Chloroform ND Freon 113 ND 1,2-Dichloroethane 5 ND 2-Butanone ND 10 1,1,1-Trichloroethane ND 5 Carbon tetrachloride ND 5 Vinyl acetate ND 10 Bromodichloromethane ND 1,2-Dichloropropane 5 ND cis-1,3-Dichloropropene ND 5 Trichloroethylene 5 ND Dibromochloromethane 5 ND 1,1,2-Trichloroethane ND ND trans-1,3-Dichloropropene 5 ND 2-Chloroethylvinyl ether 10 ND Bromoform ND 5 2-Hexanone ND 10 4-Methyl-2-pentanone ND 10 1, 1, 2, 2-Tetrachloroethane ND Tetrachloroethene 5 42 Toluene 18 Chlorobenzene ND Ethyl benzene ND Styrene ND Total xylenes ND QA/QC SUMMARY: SURROGATE RECOVERIES PQL = PRACTICAL QUANTITATION LIMIT 1,2-Dichloroethane-d4 107 % Toluene-d8 103 % Bromofluorobenzene 106 %



LABORATORY NUMBER: 200529-3 CLIENT: LAW ENVIRONMENTAL, INC. PROJECT #: 58-0605

SAMPLE ID: B-2-30

DATE RECEIVED: 08/30/9 DATE ANALYZED: 09/04/ DATE REPORTED: 09/13/9

PAGE 5 OF 8

METHOD: EPA 8240 VOLATILE ORGANICS IN SOIL

COMPOUND	RESULT	PQL
Chloromethane	ug/ ND	/Kg 10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	5
Acetone	ND	
Carbon disulfide	ND	10
Trichlorofluoromethane	ND	5 5 5 5 5 5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene		5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5 5
cis-1,3-Dichloropropene	ND	5
Frichloroethylene	ND	5
Dibromochloromethane	ND	5
l,1,2-Trichloroethane	ND	5 5 5
Benzene	ND	5
rans-1,3-Dichloropropene	ND	5
2-Chloroethylvinyl ether	ND	10
Bromoform	ND	5
2-Hexanone	ND	10
-Methyl-2-pentanone	ND	10
.,1,2,2-Tetrachloroethane	ND	5
etrachloroethene	7	5
'oluene	10	5
hlorobenzene	ND	5
thyl benzene	ND	5
tyrene	ND	5
otal xylenes		5
	ND	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION LIMI
,2-Dichloroethane-d4	103 %	
oluene-d8	101 %	
romofluorobenzene	109 %	



LABORATORY NUMBER: 200529-4

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-2-40

METHOD: EPA 8240

VOLATILE ORGANICS IN SOIL

DATE RECEIVED: 08/30/9 DATE ANALYZED: 09/04/9 DATE REPORTED: 09/13/9

PAGE 6 OF 8

COMPOUND	RESULT	PQL	
		ryu	
Chlemenshau	ug/		
Chloromethane	ND	10	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylene chloride	ND	5	
Acetone	ND	10	
Carbon disulfide	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	5	
1,1-Dichloroethane	ND	5	
cis-1,2-Dichloroethene	ND	5	
trans-1,2-Dichloroethene	ND	5 5 5 5 5	
Chloroform	ND	5	
Freon 113	ND	5	
1,2-Dichloroethane	ND	5	
2-Butanone	ND	10	
1,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
Vinyl acetate	ND	10	
Bromodichloromethane	ND		
1,2-Dichloropropane	ND	5	
cis-1,3-Dichloropropene	ND	5 5 5 5 5 5	
Trichloroethylene	ND	5	
Dibromochloromethane	ND	5	
1,1,2-Trichloroethane	ND	5	
Benzene		5	;
	ND	5	
trans-1,3-Dichloropropene	ND		
2-Chloroethylvinyl ether	ND	10	
Bromoform	ND	5	
2-Hexanone	ND	10	
-Methyl-2-pentanone	ND	10	
,1,2,2-Tetrachloroethane	ND	5	
Setrachloroethene	ND	5	
Coluene	TRACE (~4)	5	
Chlorobenzene	ND	5	
Ethyl benzene	ND	5	
Styrene	ND	5	
otal xylenes	ND	5	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION	LIMIT
,2-Dichloroethane-d4	105 %		
oluene-d8	102 %		
romofluorobenzene	113 %		
	110 0		



LABORATORY NUMBER: 200529-5

CLIENT: LAW ENVIRONMENTAL, INC.

PROJECT #: 58-0605 SAMPLE ID: B-3-10 DATE RECEIVED: 08/30/9
DATE ANALYZED: 09/06/9
DATE REPORTED: 09/13/9

PAGE 7 OF 8

METHOD: EPA 8240 VOLATILE ORGANICS IN SOIL

COMPOUND	RESULT	PQL	·
	ug/	· Ка	
Chloromethane	ND	10	
Bromomethane	ND	10	
Vinyl chloride	ND	10	
Chloroethane	ND	10	
Methylene chloride	ND	5	
Acetone	ND	10	
Carbon disulfide	ND	5	
Trichlorofluoromethane	ND	5	
1,1-Dichloroethene	ND	5	
1,1-Dichloroethane	ND	5	
cis-1,2-Dichloroethene	ND	5	
trans-1,2-Dichloroethene	ND	5	
Chloroform	ND	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Freon 113	ND	5	
1,2-Dichloroethane	ND) 5	
2-Butanone	ND	10	
l,1,1-Trichloroethane	ND	5	
Carbon tetrachloride	ND	5	
Vinyl acetate	ND	10	
Bromodichloromethane	ND	5	
,2-Dichloropropane	ND	5	
cis-1,3-Dichloropropene	ND	5	
richloroethylene	ND	5	
Dibromochloromethane	ND	5	
,1,2-Trichloroethane	ND	5	
enzene	ND	5	•
rans-1,3-Dichloropropene	ND	5 5 5 5 5 5	
-Chloroethylvinyl ether	ND	-	
romoform	ND	10	
-Hexanone		5	
-Methyl-2-pentanone	ND	10	
,1,2,2-Tetrachloroethane	ND	10	
etrachloroethene	ND	5	
oluene	21	5 5 5 5	
hlorobenzene	18	5	
thyl benzene	ND	5	
tyrene	ND	5	
otal xylenes	ND	5	
-	ND	5 	
A/QC SUMMARY: SURROGATE RECOVERIES	PQL = PRACTICAL	QUANTITATION LI	MIT
2-Dichloroethane-d4	105 %		
oluene-d8	104 %		
comofluorobenzene	96 %		



LABORATORY NUMBER: 200529-6

CLIENT: LAW ENVIRONMENTAL, INC. PROJECT #: 58-0605

SAMPLE ID: B-3-20

Bromofluorobenzene

METHOD: EPA 8240

VOLATILE ORGANICS IN SOIL

DATE RECEIVED: 08/30/9 DATE ANALYZED: 09/06/9 DATE REPORTED: 09/13/9

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VO	LATILE	ORGANICS	IN	SOIL			
COMPOUND				RESULT		PQL	
Oh lawa and					ug/Kg	*****	
Chloromethane				ND		10	
Bromomethane				ND		10	
Vinyl chloride				ND		10	
Chloroethane				ND		10	
Methylene chloride				ND		5	
Acetone				ND		10	
Carbon disulfide				ND		5	
Trichlorofluoromethane				ND		5	
1,1-Dichloroethene				ND		5	
1,1-Dichloroethane				ND		5	
cis-1,2-Dichloroethene				ND		5	
trans-1,2-Dichloroethen	е			ND		5 5 5 5	
Chloroform				ND		5	
Freon 113				ND		5	
1,2-Dichloroethane				ND		5	
2-Butanone				ND		10	
1,1,1-Trichloroethane				ND		5	
Carbon tetrachloride				ND		5	
Vinyl acetate				ND		10	
Bromodichloromethane				ND		5	
1,2-Dichloropropane				ND		5	
cis-1,3-Dichloropropene				ND		5 .	
richloroethylene				ND		5	
bibromochloromethane				ND		5	
,1,2-Trichloroethane				ND		5 5 5 5	4.
Benzene				ND		5	•
rans-1,3-Dichloroproper	ie .			ND		5	
-Chloroethylvinyl ether		4		ND		LO	
romoform				ND		5	
-Hexanone				ND	1	10	
-Methyl-2-pentanone				ND	1	.0	
,1,2,2-Tetrachloroethan	е			ND		5	
etrachloroethene				20		5	
oluene				25		5	
hlorobenzene				ND		5	
thyl benzene				ND		5	
tyrene				ND		5	
otal xylenes				ND		5	
A/QC SUMMARY: SURROGATE	RECOVE	RIES PQ	 L =	PRACTIO	CAL QUAN	TITATION	LIMIT
,2-Dichloroethane-d4				102 5	 }		
oluene-d8				104 4			
romofluorobonsono					•		

95 %



LAW ENVIRONMENTAL, INC.

3420 W. San Fernando Blvd. Sulte 200 Burbank, California 91504 (818) 848-0214

RECORD CUSTODY 0 F CHAIN

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Samples are discarded 30 days after results are reported, unless other arrangements are made. Natardous samples will be raturned to cilent or disposed of at cilent expense.

Relinquished by Received by



SUBSURFACE SOIL INVESTIGATION

SUMP AND UNDERGROUND STORAGE TANK LOCATIONS
11310 SHERMAN WAS SUN VALLEY, CALIFORNIA

Prepared fo

Hawker Pacific

November 26, 1990

3320 N. SAN FERNANDO BLVD. BURBANK. CALIFORNIA 9150 4 TEL. (818) 848-0214 FAX (818) 848-1674

November 26, 1990

Hawker Pacific 11310 Sherman Way Sun Valley, CA 91352

Project No. 58-0605

Attention: Mr. Erik Johnson

Gentlemen:

We are pleased to present our report entitled "Subsurface Soil Investigation, Sump and Underground Storage Tank Locations, 11310 Sherman Way, Sun Valley, California". This report presents the results of our limited subsurface investigation conducted at the sump and underground storage tank locations in the alley between Buildings 1 and 2 at the above-referenced property. The investigation was authorized by Mr. Erik Johnson of Hawker Pacific on August 6, 1990 (your Purchase Order No. 32727).

We appreciate the opportunity to have worked with you on this project. If you have any questions or require further assistance, please do not hesitate to call us.

Respectfully submitted,

LAW ENVIRONMENTAL, INC.

Jøli G. Oborne

Staff Environmental Geologist

Thomas M. Regan

Project Environmental Geologist

Flenn a Brown C. F. G. 3

Glenn A. Brown, C.E.G. 3 Principal Geologist

JO/pr/0605.RPT



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D.	LABORATORY ANALYSES OF SOIL SAMPLES	

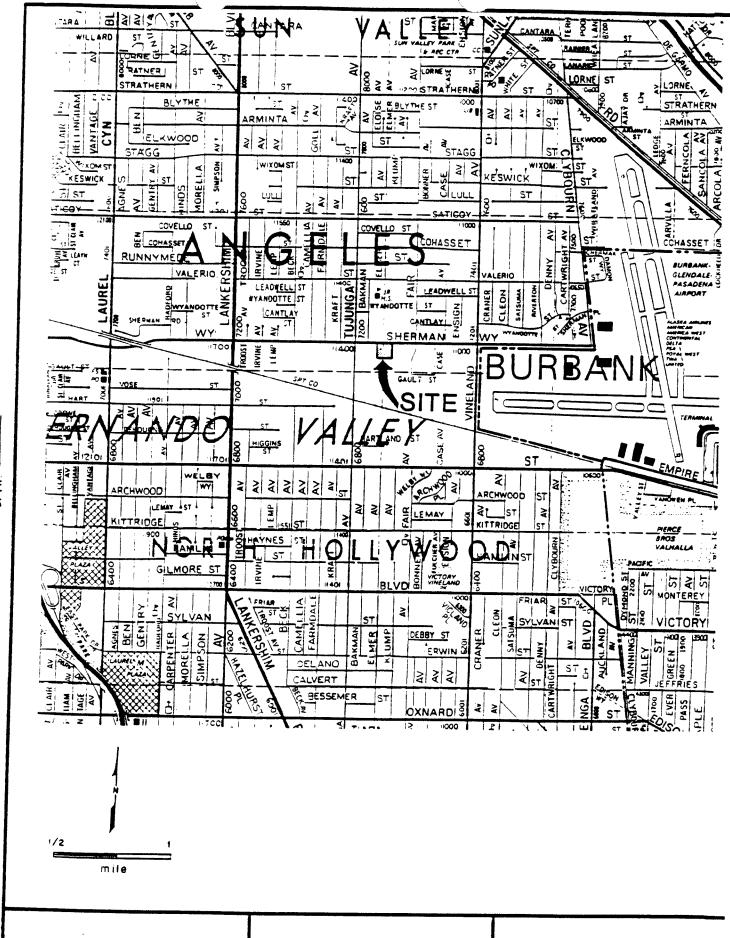


SUBSURFACE SOIL INVESTIGATION SUMP AND UNDERGROUND STORAGE TANK LOCATIONS 11310 SHERMAN WAY SUN VALLEY, CALIFORNIA

INTRODUCTION

Law Environmental, Inc., (LAW) was retained by Hawker Pacific to perform a limited subsurface soil investigation in the alley located between Building 1 and Building 2 at 11310 Sherman Way in Sun Valley, California (Figure 1). This investigation was authorized by Mr. Erik Johnson on August 6, 1990 (your Purchase Order No. 32727).

Our professional services have been performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional advice included in this report. This report has been prepared for Hawker Pacific and is directed towards complying with their specific needs. The report has not been prepared for use by other parties, and may not contain sufficient information for the purposes of other parties or other uses. Any use, interpretation, or emphasis other than that contained herein, is done at the reader's own risk.



HAWKER PACIFIC
SAN FERNANDO VALLEY, CA.

M GR

0612

5

LOCATION MAP

Proj. No. 58-0612



3320 N. SAN FERNANDO BLVD. BURBANK, CALIFORNIA 9150 4 TEL. (818) 848-0214 FAX (818) 848-1674

May 22, 1991

Hawker Pacific 11310 Sherman Way Sun Valley, CA 91352

Attention: N

Mr. Erik Johnson

Subject:

Proposal for Tank Removal

Contamination Assessment and Remediation 11310 Sherman Way, Sun Valley, California Law Environmental Proposal No. 58-0225

As we discussed in our phone conversation on December 28, 1990, Law Environmental, Inc. (Law) is pleased to present this proposal for a tank removal, contamination assessment and remediation at this site. Previous investigations at the site (Subsurface Soil Investigation, Law Project No. 58-0605, November 26, 1990) indicate the presence of a small underground storage tank and a sump on-site. The soils beneath the tank and sump are contaminated with tetrachloroethene (PCE). We understand that Hawker Pacific is requesting further assessment of the vertical and lateral extent of contamination at the site, and that remediation of the soil by vapor extraction be conducted. The proposed investigation is based on our current understanding of the project requirements and knowledge of general soil conditions in the area.

SCOPE OF SERVICES

Underground Storage Tank Removal

Underground fuel storage tank removal requires a permit from the Los Angeles County Department of Public Works (DPW), Waste Management Division. The DPW permit requirements include notification of DPW, the City of Los Angeles Fire Department, and the South Coast Air Quality Management District (AQMD). They must be notified 72 hours before the tank removal so inspectors from the county and the fire department can be present to observe tank removal activities. The permit also requires samples to be collected from beneath the tank. Because personnel at Hawker Pacific do not know the

former contents of the tank, Los Angeles County DPW requires that soil samples must be analyzed for volatile organics (EPA Method 8240), base neutral/acids extractables (EPA Method 8270), pesticides/PCBs (EPA Method 8080), metals (EPA Method 6010/7000) and total petroleum hydrocarbons (EPA Method 8015).

When the tank is removed, excavation and removal must be monitored with a device capable of detecting parts per million (ppm) levels of hydrocarbon vapors in the air. If readings over 50 ppm are observed, the work must stop, and a permit from the AQMD must be obtained. The AQMD permit conditions may include continuous air monitoring, restrictions on methods of excavation, and covering the excavation, as well as other requirements.

We understand from a memo dated January 23, 1990, to Mr. Erik Johnson from M. H. Loe, that the Fire Department will allow the tank to be pulled on the original permit. Law personnel will observe the removal of the tank and appurtenances, and will monitor the excavation with an AQMD-approved organic vapor detector. Law will collect a soil sample from beneath the tank as required by DPW. A letter-report will be prepared describing soil sampling procedures, soil gas readings, and an evaluation of analytical findings. At this time, information from previous studies at the site may be included in the report to DPW.

Soil Contamination Assessment

The lateral extent of PCE contamination at the site was found in a previous investigation, as shown on Figure 1. This study found that the contamination extended to a depth of 74 feet (toluene \approx 4 parts per billion [ppb], PCE = ND <5 ppb). Law proposes to drill a deep boring to confirm that the contamination has not migrated to the water table. We propose to drill one 120-foot deep boring at the western end of the alley between Buildings 1 and 2. Because the alley is inaccessible, the drill rig would have to be located in the parking lot of the neighboring property. The borings will be drilled using 8 or 10-inch diameter, hollow-stem flight auger drilling equipment. All augers will be steam-cleaned before starting work, and upon completion of each boring to preclude cross-contamination. Soil samples will be collected at 5-foot intervals using a modified California split-spoon sampler. Ten to 15 samples will be analyzed for purgeable organics and extractable petroleum hydrocarbons by EPA Method 8240 and Modified EPA Method 8015, respectively. The soil samples will not be tested for any additional parameters, unless these are specifically requested by the client in writing.

All drill cuttings with visual or olfactory evidence of contamination will be impounded in DOT 17H rated drums. Contaminated cuttings will be turned over to the client for lawful disposal in accordance with all applicable federal, state and local regulations and ordinances. The client will be informed of the results of the chemical analyses, and advised as to the proper means of disposal. If contaminated soils are encountered, the borings will be sealed with a bentonite/cement slurry, or the equivalent, and patched with asphalt or concrete. THE ESTIMATED FEE DOES NOT INCLUDE THE COST OF ALTERNATIVE

BACKFILL MATERIALS, SOIL CONTAINERIZATION OR DISPOSAL BY LAW ENVIRONMENTAL, INC.

Soil Vapor Extraction

Law is confident that soil vapor extraction, when compared to alternative methods, will be an effective way to significantly reduce PCE and toluene concentrations within site soils. The underlying alluvial soils are predominantly composed of sand and gravel, but a small amount of clay may be present. Therefore, we cannot say that levels can be reduced to one ppm or less, because the clay content of the site soil will affect the amount of adsorption.

Soil vapor extraction is generally considered a fairly long-term remedial measure, commonly requiring one to two years or more for completion. We estimate that 90 percent removal of recoverable PCE and toluene may be achieved within the first six months of operation of a full scale system. Operation and maintenance costs should be minimal following the initial six months of operation, exclusive of many restrictions and monitoring requirements which may be imposed by regulatory agencies.

Vapor extraction methodology involves mechanically inducing a reduced pressure within the entire zone of soil contamination by means of an electrically powered blower manifolded to the extraction wells. The soil vapor extraction system will utilize activated carbon canisters as a means of collecting extracted organic vapors. Spent activated carbon canisters, a hazardous waste, are transported to a hazardous waste disposal facility for incineration. This process destroys the organic compounds and terminates the associated environmental liability for the generator of the hazardous waste.

Six 25-foot deep extraction wells will be installed adjacent to the sump area (Figure 1). The borings will be logged by a geologist and cuttings will be screened using a Foxboro 108GC Organic Vapor Analyzer (OVA). The wells will consist of PVC pipe, slotted in the lower part, surrounded by an appropriate granular packing material (coarse sand or gravel) and sealed with moistened granular bentonite. The wells will be connected to a manifold leading to the suction/blower assembly and carbon canisters.

All well header assemblies and pipe leading to the manifold can be placed beneath the existing parking lot, if necessary. We propose to place the manifold along the perimeter of the alley and place all other aboveground equipment on the cement platform to the north of the tank and sump (see Figure 1). If not already present, a 110/220 volt electrical service must be extended to the building exterior at this location.

After an operating permit is received from the South Coast Air Quality Management District (SCAQMD), we will begin system operation. The air stream from the blower assembly will be monitored at intervals with a portable organic vapor analyzer calibrated to provide a direct readout concentration in parts per million (ppm).

FEE ESTIMATE

We propose to perform the investigation in three phases. Estimated fees for each phase are outlined below:

Phase 1: Tank Pull

•	Subcontractor services (includes permits, tank removal and disposal, sampling and analysis, clean fill)*	\$ 5,570
•	Consulting services (includes observation of on-site work, data evaluation and report preparation)	\$ 3,000
•	Expenses (vehicle, equipment rental)	\$ 250
	Subtotal	\$ 8,820
Phase 2:	Contamination Assessment	
•	Subcontractor services (drilling)*	\$ 5,610
•	Laboratory analyses (30 samples by EPA Method 8240 and Modified EPA Method 8015)*	\$ 8,000
•	Consulting services (includes observation of on-site work, sampling, data evaluation and report preparation)	\$ 7,250
•	Expenses (includes travel, sampling supplies, equipment rental and miscellaneous fees)	\$ 1,350
	Subtotal	\$22,210

Phase 3: Soil Vapor Extraction System

•	Work Plan (includes Health and Safety Plan)	\$ 2,100
•	Vapor Extraction System (includes purchase and delivery of skid-mounted unit)	\$ 18,440
•	Installation of system	\$ 2,960
•	Supervision of installation of vapor extraction system and quality control (includes periodic monitoring as required by permit)	\$ 2,400
•	Expenses (includes system materials, permits, equipment rental, vehicles and miscellaneous fees)	\$ 2,000
	Subtotal	\$27,900
	TOTAL	\$ 58,930

* Fees for contractor services will be billed directly to the client. Contractor fees in this estimate are shown without the 15 percent surcharge.

Law proposes to perform the above-mentioned services for an estimated cost of \$58,930; \$18, 350 is the fee estimated for consulting services, \$40,580 is the estimated fee for the contractor services. The fee for consulting services will not be exceeded by more than 10 percent without prior authorization of Hawker Pacific.

TERMS AND CONDITIONS

The fee for our service is based on the rates given in the attached Schedule of Charges. If acceptable, please indicate your acceptance of this proposal by signing the attached Proposal Acceptance Sheet and returning one copy to our office. It should be noted that Law Environmental, Inc. is on a computerized accounting system that issues invoices every 28 days. The invoices are for charges during the preceding billing period and are not cumulative. Invoices may be received before the particular project assignment or task is completed. Final billing will be so noted on the final invoice.

The terms on the reverse side of the Proposal Acceptance Sheet are an integral part of our contract for professional services. By authorizing our services, you confirm that you have read this contract and the terms, and accept the Limitation of Liability provided for in the paragraph titled "Professional Liability". If you wish to increase our liability coverage as computed in the paragraph, please provide a written request at the time of the proposal acceptance.

We appreciate the opportunity to provide our services for your project. We look forward to receiving your written authorization to proceed. If you have any questions regarding this proposal, please do not hesitate to contact our office.

Sincerely,

LAW ENVIRONMENTAL, INC.

/Juli G. Oborne

Project Environmental Geologist

Glenn A. Brown, C.E.G. 3

Principal Geologist

JO/ks/0225.PRO

Attachment



PROPOSAL ACCEPTANCE SHEET

Identification of Services Tank Removal, Co	ontamination Assessment,	Remediation
Project Name_ Hawker Pacific		
Project Location 11310 Sherman Way,	Sun Valley, CA	
Proposal No. and Date 58-0225 May	22, 1991	
Consultant's Branch Designation Burbank		
CLIENT		
Name Hawker Pacific		
Address 11310 Sherman Way		
Sım Valley, CA	Zip Code 91352	Phone number (818) 765-6201
Attention: Erik Johnson		ous Waste Engineer
FOR NOTICES: (if different)		
Address		
	Phone numb	
Consultant: Name		
Address		
		er
SPECIAL INSTRUCTIONS:		
PROPOSAL ACCEPTANCE		
The Terms and Conditions of this Proposal, incl	uding the terms and conditions o	n this and the attached pages are:
Accepted this 3 1 3 1 day	of May 19 91	
HAWKER PACIFIC, INC.)	
Print or type individual, firm or corporate body na	ame	
Yell BBirgh		
Signature of authorized representative		
JEFF B. BELZER, VICE PRESIDENT, A	DMINISTRATION & FINANCE	

TERMS AND CONDITIONS

- 1. SERVICES TO BE PROVIDED. Law Environmental, (hereinafter LAW) is an independent consultant and agrees to provide Client, for its sole benefit and exclusive use, consulting services set forth in our proposal.
- 2. PAYMENT TERMS. Client agrees to pay our invoice upon receipt. If payment is not received within 30 days from the invoice date, Client agrees to pay a service charge on the past due amount at the prevailing legal rate, including reasonable attorney's fees if collected through an attorney, and LAW reserves the right to suspend all work until payment is received. No deduction shall be made from our invoice on account of liquidated damages or other sums withheld from payments to contractors or others.

Either party may terminate this Agreement without cause upon 30 days written notice. In the event Client requests termination prior to completion of the proposed services, Client agrees to pay LAW for all costs incurred plus reasonable charges associated with termination of the work.

- 3. STANDARD OF CARE. LAW will perform its services using that degree of care and skill ordinarily exercised under similar conditions by reputable members of our profession practicing in the same or similar locality. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED BY OUR PROPOSAL OR BY OUR ORAL OR WRITTEN REPORTS.
- 4. INSURANCE. LAW maintains insurance coverage as follows:
 - (a) Worker's Compensation Insurance statutory.
 - (b) Employer's Liability Insurance \$1,000,000.
 - (c) Commercial General Liability Insurance \$2,000,000/\$3,000,000.
 - (d) Automobile Liability Insurance \$1,000,000/ \$1,000,000.
 - (e) Excess Umbrella \$1,000,000 (on c & d)
- 5. PROFESSIONAL LIABILITY: Client agrees that LAW's liability to Client or any third party due to any negligent professional acts, errors or omissions or breach of contract will be limited to an aggregate of \$50,000 or our total fee, whichever is greater. If Client prefers to have higher limits of professional liability, we agree to increase the limit up to a maximum of \$1,000,000 upon Client's written request at the time of accepting our proposal, provided Client agrees to pay an additional consideration of ten percent of our total fee, or \$500, whichever is greater. The additional charge for the higher liability limit is because of the greater risk assumed by us and is not a charge for additional professional liability insurance.
- 6. SITE OPERATIONS. Client will arrange for right-of-entry to the property for the purpose of performing studies, tests and evaluations pursuant to the agreed services. Client represents that it possesses necessary permits and licenses required for its activities at the site.

LAW's field personnel are trained to initiate field testing, drilling and/or sampling within a reasonable distance of each designated location. Our field personnel will avoid hazards or utilities which are visible to them at the site. If we are advised or given data in writing that reveals the presence or potential presence of underground or overground obstructions, such as utilities, we will give special instructions to our field personnel. LAW is not responsible for any damage or loss due to undisclosed or unknown surface or subsurface conditions, owned by Client or third parties. Except as such damage or loss is a result of our sole negligence, Client agrees to indemnify us from any such claims, suits or losses, including reasonable attorney's fees, resulting therefrom.

We will take reasonable precautions to minimize damage to the property caused by our operations. Unless otherwise stated in our proposal, our fee does not include cost of restoration due to any related damage which may result. If Client requests us to repair such damage, we will do so at an additional cost.

Field tests or boring locations described in our report or shown on sketches are based on specific information furnished by others or estimates made in the field by our personnel. Such dimensions, depths or elevations should be considered as approximations unless otherwise stated in our proposal or report.

7. FIELD REPRESENTATIVE. The presence of our field personnel, either full-time or part-time, may be for the purpose of providing project administration, assessment, observation and/orfield testing of specific aspects of the project as authorized by Client. Should a contractor(s) not retained by us be involved in the project, Client will advise contractor(s) that our services do not include supervision or direction of the actual work of the contractor(s), his employees or agents. Client will also inform contractor that the presence of our field representative for project administration, assessment, observation or testing will not relieve the contractor of his responsibilities for performing the work in accordance with the plans and specifications.

If a contractor (not a subcontractor of LAW) is involved in the project, Client agrees, in accordance with generally accepted construction practices, that the contractor will be solely and completely responsible for working conditions on the jobsite, including safety of all persons and property during performance of the work, and compliance with OSHA regulations. These requirements will apply continuously and will not be limited to normal working hours. It is agreed that LAW will not be responsible for job or site safety on the project, other than for our employees and subcontractors, and that we do not have the duty or right to stop the work of the contractor.

8. UNFORESEEN CONDITIONS OR OCCURRENCES. It is possible that unforeseen conditions or occurrences may be encountered which could substantially after the necessary services or the risks involved in completing our services. If this

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occurs, we will promptly notify and consult with Client, but will act based on our sole judgment where risk to our personnel is involved. Possible actions could include:

- (a) Complete the original Scope of Services in accordance with the procedures originally intended in our Proposal, if practicable in our judgment;
- (b) Agree with Client to modify the Scope of Services and the estimate of charges to include study of the unforeseen conditions or occurrences, with such revision agreed to in writing:
- (c) Terminate the services effective on the date specified by us in writing.
- 9. SAMPLE DISPOSAL. Test specimens or samples generally are consumed or substantially altered during testing and are disposed of immediately upon completion of tests. Drilling samples and other specimens are disposed of 30 days after submission of our report.
- a. NON-HAZARDOUS SAMPLES. At Client's written request, LAW will retain preservable test specimens or the residue therefrom for 30 days after submission of our report free of storage charges. After the initial 30 days and upon written request, we will retain test specimens or samples for a mutually acceptable storage charge and period of time. Client agrees that we are not responsible or liable for any loss of test specimens or samples retained in storage.
- b. *HAZARDOUS OR POTENTIALLY HAZARDOUS SAMPLES. In the event that test samples contain constituents deemed hazardous by federal, state or local regulations, LAW will: 1) return such samples to Client; or, 2) using a manifest signed by Client as generator and at additional cost, have such samples transported to a location selected by Client for proper final disposal. Client agrees to pay all costs associated with the storage, transport, and disposal of samples. Client recognizes and agrees that LAW is acting as a bailee and at no time assumes title to said materials.
- 10. * CLIENT DISCLOSURE. Client agrees to advise LAW upon execution of this Agreement of any hazardous substance or any condition, known or that reasonably should be known by Client, existing in, on, or near the site that present a potential danger to human health, the environment, or equipment. Client agrees to provide continuing information as it becomes available to the Client in the future. By virtue of entering into this Agreement or providing services hereunder, we do not assume control of or responsibility for the site or the person in charge of the site, or undertake responsibility for reporting to any federal, state or local public agencies any conditions at the site that may present a potential danger to public health, safety or the environment. Client agrees under advice of Client ∞unsel to notify the appropriate federal, state or local public agencies as required by law, or otherwise to disclose, in a timely manner, any information that may be necessary to prevent damage to human health, safety, or the environment.

- 11. *ENVIRONMENTAL INDEMNITY. In connection with toxic or hazardous substances or constituents and to the maximum extent permitted by law, Client agrees to defend, hold harmless and indemnify LAW from and against any and all claims and liabilities, unless caused by our sole negligence or willful misconduct, resulting from:
 - (a) Client's violation of any federal, state, or local statute, regulation or ordinance relating to the management or disposal of toxic or hazardous substances or constituents:
 - (b) Client's undertaking of or arrangement for the handling, removal, treatment, storage, transportation or disposal of toxic or hazardous substances or constituents found or identified at the site;
 - (c) Toxic or hazardous substances or constiuents introduced at the site by Client or third persons before or after the completion of services herein; and,
 - (d) Allegations that LAW is a handler, generator, operator, treater, storer, transporter, or disposer under the Resource Conservation and Recovery Act of 1976 as amended or any other similar federal, state or local regulation or law due to the services provided under this Agreement.

If a third party brings suit or claim for damages against LAW alleging personal injury (including death) or property damage from exposure to or release of toxic or hazardous substances or constituents at or from the project site before, during or after the services of this Agreement, Client agrees to the maximum extent permitted by law to defend LAW and pay on our behalf any judgment resulting against us, including interest thereon, unless such injury or damage is caused by our sole negligence or willful misconduct.

- 12. *EQUIPMENT CONTAMINATION. We will endeavor to clean our laboratory and field equipment which may become contaminated in the conduct of our services. Occasionally, such equipment cannot be completely decontaminated because of the type of hazardous materials encountered. If this occurs, it will be necessary to dispose of the equipment in a manner similar to that indicated for hazardous samples and to charge Client for the loss. Client agrees to pay the fair market value of any such equipment and reasonable disposal costs.
- 13. **DOCUMENTS.** LAW will furnish to Client the agreed upon number of reports and supporting documents. These instruments of services are furnished for Client's exclusive internal use and reliance in connection with the project or services provided for in this Agreement, not for advertising or other type of distribution or general publication, and are subject to the following. For any other purposes, all documents generated by LAW under this Agreement shall remain the sole property of LAW. Client agrees to obtain our written permission for any exception for use not described here. Any unauthorized

use or distribution shall be at Client's and recipient's sole risk and without liability to LAW.

If Client desires LAW to provide our report(s) to a third party (other than Client's counsel or appropriate regulatory bodies) for that party's reliance, LAW will agree to such release provided we obtain written acceptance from the third party to be bound by the similar terms and conditions of our "Secondary Client" agreement which is available on request. Reports provided for information only will not require the Secondary Client agreement. Client acknowledges and agrees to inform any such third party that the LAW report(s) reflects conditions only at the time of the study and may not reflect conditions at a later time.

Client agrees that all documents furnished to Client or Client's agents or designees, if not paid for, will be returned upon demand and will not be used by Client or any other entity for any purpose whatsoever. Client further agrees that documents produced by LAW pursuant to this Agreement will not be used at any location or for any project not expressly provided for in this Agreement without our written approval.

Client shall furnish documents or information reasonably within Client's control and deemed necessary by us for proper performance of our services. LAW may rely upon Client-provided documents in performing the services required under this Agreement; however, LAW assumes no responsibility or liability for their accuracy. Client-provided documents will remain the property of Client.

- 14. CLAIMS. The parties agree to attempt to resolve any dispute without resort to litigation. However, in the event a claim is made that results in litigation, and the claimant does not prevail at trial, then the claimant shall pay all costs incurred in defending the claim, including reasonable attorney's fees. The claim will be considered proven if the judgment obtained and retained through any applicable appeal is at least ten percent greater than the sum offered to resolve the matter prior to the commencement of trial.
- 15. OPINIONS OF COST. If requested, LAW will use its best efforts and experience on similar projects to provide realistic opinions or estimates of costs for installation of materials, remediation or construction as appropriate based on reasonably available data, our designs or our recommendations. However, such opinions are intended primarily to provide information on the order of magnitude or scale of such costs and are not intended for use in firm budgeting or negotiation unless specifically agreed otherwise in advance, in writing with LAW. Client understands actual costs of such work depend heavily on regional economics, local construction practices, material availability, site conditions, weather conditions, contractor skills, and many other factors beyond our control.
- 16. TESTIMONY. Should LAW or any employee of LAW be called or asked to provide testimony or other evidence by any

party, whether at deposition, hearing or trial, in relation to services provided under this Agreement, LAW shall be compensated by Client for the associated reasonable expenses and labor at appropriate unit rates to the extent the party compelling or requesting the testimony does not provide such compensation.

- 17. CONFIDENTIALITY. LAW will maintain as confidential any documents or information provided by Client indicated to be confidential and will not release, distribute or publish to any third party without prior permission from Client, except as compelled by order of a court or regulatory body of competent jurisdiction and then only after notice to Client.
- 18. SEVERABILITY. In the event that any provision of this Agreement is found to be unenforceable, the other provisions shall remain in full force and effect.
- 19. SURVIVAL. All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating responsibility or liability between Client and LAW shall survive the completion of the services and the termination of this Agreement.
- 20. INTEGRATION. This Agreement, the attached documents and those incorporated herein constitute the entire Agreement between the parties and cannot be changed except by a written instrument signed by both parties.
- 21. GOVERNING LAW. This Agreement shall be governed in all respects by the laws of the State of Georgia.
- * Applies only if toxic or hazardous substances or constituents are anticipated or encountered.

END OF DOCUMENT

OCCUPATIONAL CONTROL PROCEDURES (Continued)

Respiratory

Protection:

Use NIOSH approved equipment when exposure to mist or aerosols is possible or when working with product at elevated temperature. Consult respirator manufacturer to determine appropriate type equipment for given application.

Ventilation:

Provide ventilation to minimize exposure. Local exhaust ventilation preferred.

Airborne

Exposure Limits:

No permissible exposure limit or threshold limit value has been established by OSHA or the ACGIH for SKYDROL 500B-4 fire resistant hydraulic fluid, although two constituents of the product does have exposure guidelines.

Tributyl Phosphate (CAS No. 126-73-8)

OSHA PEL/TWA: 5 mg/m³ (0.4 ppm) ACGIH TLV®/TWA: 2.5 mg/m³ (0.2 ppm)

ACGIH TLV/STEL: 5 mg/m3 (0.4 ppm) SHORT TERM EXP. LIMIT

8 HOUR DAY

2,6-di-tert-butyl-p-cresol (CAS No. 128-37-0) ACGIH TLV/TWA: 10 mg/m³

ACGIH TLV/STEL: 20 mg/m3 SHORT TERM EXP. LIMIT

FIRE PROTECTION INFORMATION

Auto ignition Temperature:

750°F (Min.)

Method:

ASTM D-2155

Flash Point:

320°F (Min.)

Method: Cleveland Open Cup

Fire Point:

350°F (Min.)

Method:

Cleveland Open Cup

Extinguishing Media:

Water spray, foam, dry chemical, CO₂ or other agents suitable for

Class B fires.

Special Firefighters

Procedures:

Wear self-contained breathing apparatus when exposed to products of

combustion. Wear protective equipment to minimize skin contact.

Unusual Fire Hazards:

Phosphorus oxide fumes may be produced during fires.

REACTIVITY DATA

Stability:

Product is stable under normal conditions of storage and under con-

tinued use up to approximately 200-225°F.

Materials to Avoid:

Exposure to strong oxidizing agents may result in generation of heat

and combustion products.

Hazardous Decomposition

Products:

Oxides of phosphorus may form. No other uniquely hazardous decomposition products are expected. If the product is burned, as with any organic material, carbon monoxide and soot can be produced.

Hazardous Polymerization: Does not occur.

PHYSIOLOGICAL EFFECTS SUMMARY

Human Experience

Repeated contact with SKYDROL 500B-4 fire resistant hydraulic fluid may cause drying or cracking of exposed skin. Eye contact may produce marked pain but does not cause eye damage.

Monsanto MATE. JAL SAFETY DATA

PHYSIOLOGICAL EFFECTS SUMMARY (Cont'd)

Animai Data

Oral LD₅₀ (Rat): 2,200 mg/kg, Slightly Toxic

Dermal LD₅₀ (Rabbit): Greater than 7,940 mg/kg, Practically Nontoxic Eye Irritation (Rabbit): (FHSA) 2.4 on a scale of 110.0, Slightly Irritating Skin Irritation (Rabbit): (FHSA) 2.5 on a scale of 8.0, Slightly Irritating

Patch testing of 53 human volunteers with SKYDROL 500B-4 fluid produced no positive reaction following initial application; 16 out of 53 subjects displayed reactions during subsequent exposures. No reaction was observed on rechallenge 2 weeks later. SKYDROL 500B-4 fluid is not considered a primary irritant or a sensitizing agent, but on repeated exposure, may be a cumulative irritant to some individuals.

PHYSICAL DATA

Appearance: Clear, purple, oily liquid

Boiling Point @ 267 mm Hg

(Based on Vapor

Pressure Data): ~257°F

Pour Point: -80°F (Maximum)

Specific Gravity @ 25/25°C: 1.052-1.060

Viscosity @ 100°F: 11.3-12.10 cs

Refractive Index, n 25/D: 1.466 - 1.474

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

SPILL, LEAK & DISPOSAL INFORMATION

Waste Disposal: Waste should be incinerated or disposed of in a hazardous waste landfill.

Either disposal route should be in accordance with all local, state or federal regulations. This material should not be spilled, dumped, rinsed, or washed

into sewers or public waterways.

Spill or Leakage

Procedures: Absorb spilled or leaked material on clay, sawdust, or other absorbent

material.

ADDITIONAL COMMENTS

Environmental Toxicity Information:

96-hr LC₅₀ Trout: 2.6 ppm, Moderately Toxic

96-hr LC₅₀ Fathead Minnow: 3.0 ppm, Moderately Toxic

48-hr EC₅₀ Daphnia: 6.5 ppm, Moderately Toxic

96-hr EC₅₀ Algae - Cell Count: 8.9 ppm, Moderately Toxic 96-hr EC₅₀ Algae - Chlorophyll: 7.1 ppm, Moderately Toxic

Product Qualifies under the following specifications:

BMS 3-11F, Type IV, Class 2, Grade A DMS 2014C, Type IV, Class 2 LAC MS C-34-1224, Type IV SAE AS 1241A, Type IV, Class 2 NSN 9150-00-857-9069

Page 4 of 4

DATE:

12-21-84

MSDS NO.: M00006729

SUPERSEDES:

11/1/83

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CONTACT:

Monsanto Company 800 North Lindbergh Boulevard St. Louis, MO 63167 314-694-1000

Although the Information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Monsanto Company makes no representations as to the completeness or accuracy thereof, Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Monsanto Company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

This form has been approved by the Occupational Safety and Health Administration as "equivalent to" OSHA Form 20.

AFETY DATA SKYDROL® 500B-4 Fluid

Chevron U.S.A. Inc.

Material Information Bulletin

(Approved - "Essentially Similar" to Form OSHA 20, Material Safety Data Sheet)



CHEVRON PEARL KEROSENE

CMS 217105

HA

HARMFUL OR FATAL IF SWALLOWED

DANGER! COMBUSTIBLE

KEEP OUT OF REACH OF CHILDREN

TYPICAL COMPOSITION

Paraffins (incl. naphthenes)

98%

Aromatics

C₈+

2%

Benzene

<0.1%

EXPOSURE STANDARD

The suggested Threshold Limit Value is 275 ppm (parts of vapor per million parts of air) for a daily 8-hour exposure. No OSHA exposure

standard has been established.

PHYSIOLOGICAL & HEALTH EFFECTS

EMERGENCY & FIRST AID PROCEDURES

Eyes

Not expected to cause eye irritation. Application into the eyes of rabbits produced no observable signs of membrane irritation.

Wash eyes with fresh water for at least 15 minutes. If irritation continues, see a doctor.

Skin

Prolonged or frequently repeated contact may cause skin irritation or may cause the skin to become cracked or dry from the defatting action of this material. Application onto the skin of rabbits produced moderate erythema and edema. See Additional Health Data.

Wash thoroughly with soap and water following skin contact. Launder contaminated clothing.

L.T. "LEE" SAWYER, INC.

JOBBER

SHELL OIL & SHELL CHEMICAL PRODUCTS 14117 Natus St., Van Hogs, CA

785-8180 Box 369, Van Nuys, CA 91408

Inhalation

Breathing the vapors at concentrations above the exposure standard can cause central nervous system depression. See Additional Health Data. If there are signs or symptoms, as described in this bulletin, due to breathing this material, move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor immediately.

ingestion

Not expected to be acutely toxic by ingestion. The acute oral LD₅₀ (rat) was greater than 10 g/kg. See Additional Health Data.

If swallowed, DO NOT make person vomit. Call a doctor immediately.

Chevron Environmental Health Center/P.O. Box 1272, Richmond, CA 94802 Emergency Phone Rumber (415) 233-3737

CRR-6745(A)(10M-9-79) Printed in U.S.A.

Dere 1 of 3

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See Page 3

SPECIAL PROTECTIVE INFORMATION

Eye Protection: Avoid contact with eyes. Eye contact can be avoided by wearing chemical safety goggles.

Skin Protection: Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective clothing including rubber gloves.

Respiratory Protection: Wear approved respiratory protection such as an organic vapor cartridge or an air-supplying respirator unless ventilation equipment is adequate to keep airborne concentrations below the exposure standard.

Ventilation: Use adequate ventilation to keep airborne concentrations of this material below the exposure standard.

FIRE PROTECTION

Liquid evaporates and forms vapors (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85°F.

Flash Point: (TCC) 52°C (125°F) Min. Autoignition Temp.: 260°C (500°F) Flammability Limits: 0.9 - 6.0%

Extinguishing Media: CO₂, Dry Chemical, Foam, Water Spray

Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or caygen deficiency. Read the entire bulletin.

SPECIAL PRECAUTIONS

See Page 3

ENVIRONM TAL PROTECTION

Environmental Impact: This material is not expected to present any environmental problems other than those associated with oil spills.

Precautions if Material is Released or Spilled: Eliminate all open flames in vicinity of spill or released vapor. Clean up spills as soon as possible, observing precautions in Special Protective Information and on product label. Absorb large spills with absorbent clay, diatomaceous earth or other suitable material. A fire or vapor hazard may exist since these cleanup materials will only absorb liquid; they will not absorb vapor.

Waste Disposal Methods: Place contaminated materials in disposable containers and bury in an approved dumping area.

REACTIVITY DATA

Stability (Thermal, Light, etc.): Stable

Incompatibility (Materials to Avoid): May react with strong oxidizing materials.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

Hazardous Polymerization: Will not occur.

PHYSICAL PROPERTIES

Solubility: Miscible with hydrocarbon solvents; insoluble in water.

Appearance (Color, odor, etc.): Colorless liquid.

Boiling Range: 350-510°F
Melting Point: n/a
Specific Gravity: 0.81 @ 60/60°F
Vapor Pressure: 1 mm Hg @ 77°F
Vapor Density (Air = 1): 5.7
Percent Volatile (Volume %): 99+%
Evaporation (Bu Ac = 1): 0.03
Molecular Weight: 166 (Avg.)
Viscosity: 1.50 cSt @ 100°F

n/a = Not Applicable

Material Information Bulletin

CHEVRON Pearl Kerosene

CMS 217105

ADDITIONAL HEALTH DATA

Signs and symptoms of central nervous system depression may include one or more of the following: headache, dizziness, loss of appetite, weakness and loss of coordination. Affected persons usually experience complete recovery when removed from the exposure area.

Not expected to produce systemic toxicity by skin contact; the acute dermal $\rm LD_{50}$ for rabbits was 19.6 g/kg.

Note to Physician: Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid which can cause pneumonitis.

SPECIAL PRECAUTIONS

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL

Contains Petroleum Distillate

DO NOT USE OR STORE near flame, sparks, or hot surfaces. USE ONLY IN WELL VENTILATED AREA.

DO NOT weld, heat or drill container.

Replace cap or bung. Emptied container still contains hazardous or explosive vapor or liquid.

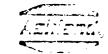
CAUTION! Do not use pressure to empty drum or explosion may result.

MATERIAL SAFETY DATA SHEET

Ashland Citamical Company

DIVISION OF ASHLAND DILL INC.

PO. BOX 2219, COLUMBUS, OHIO 43215 • 16141 FF2-3333.



002172

METHYL ETHYL KETONE

FAGE

ACCEPTED BY O.S.H.A. AS ESSENTIALLY SIMILIAR TO 0.5.H.A. FORM 20 TELEPHONE: 606-324-1133 (LOCATED AT ASHLAND, KENTUCKY) TETTTETTETTTETTTETT 05 50 033 6038800DATA SHEET NOT 0000017-001
LATEST REVISION DATE 02/78-78044
PRODUCT: 3540000
INVOICE: 925326
INVOICE: 925326
TO. MILLHORN CHEMICAL
6142 WALKER AVE.
MAYWOOD, CA 90270
(213) 77 90270 MILLHOPN CHEMICAL P O BOX 460 MAYWOOD, CA 90270 ATTN PURCHASING/SAFETY DEPT SECTION I-PRODUCT IDENTIFICATION GENERAL OR GENERIC ID KETONE HADARD CLUBSIFICATION (ED) PLANMABLE LIQUID (173 115) SECTION II-HAZARDOUS COMPONENTS INGREDIENT PERCENT METRICE ETHYL RETORE > 6.0 200 PPM SECTION III-PHYSICAL DATA REFINEMENT MEASUREMENT 175 00 70 99 760 00 INITIAL HOLLING POINT FOR PRODUCT DEG CO MMIIG MMHG 0 0 FOR PRODUCT VAFOR PRESSURE DEG F 68 0.0 ---VAPOR DENSITY SPECIFIC CRAVITY ខពថ 68 U.0 20 00 000 00 PERCENT VOLATTIES 5 2 11 CHU AC=1 EVALORATION BATE SECTION IN-FIRE AND EXPLOSION DATA EGHER EXPLOSIVE EIGHTE EXTINGUISHING MEDIA. ALCOHOL FOAM OR CARDON DIOXIDE OR DRY CHEMICAL HAZARBOUG DECOMPOSITION PÉODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXEDE, MARIOUG HYDROCARBONS, LIC JAL FIRE & EXPLOSION HAZARDS, VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT DISCHARGE, OP-OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POTHS
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SKIR - PROLONGED OF REPEAR O CONTACT CAN CAUSE MODERATE IRRITATION, DESASTING,
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Ashland Chemical Lompany

DIVISION OF ASHLAND OIL INC.

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MATERIAL SAFETY DATA SHEET

PO. BOX 2219, COLUMBUS, OHIO 43216 - (514) 962-3333

METHYL ETHYL KETONE	PAGE 2
SECTION V-HEALTH HAZARD DAYA COMMON COMPROSICA COMMON COMMON COMM	
FIRST AID	
TE ON SKIN THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER REMOVE CONTAMINATED CLOTHING DEFORE RE-	
IF IN EYES FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWE OCCASIONALLY, SIT MEDICAL ATTENTION.	
IF SWALLOWED GIVE TWO GLASSES OF WATER INDUCE VOMITING IMMEDIATELY STICKING FINGER DOWN THROAT CALL A PHYSICIAN NEVER GIVE ANYT MOUTH TO AN UNCONSCIOUS PERSON.	
JO BREATHED IF AFFECTED, PEMOVE INDIVIDUAL TO FRESH AIR IF BREATHIN Difficult, administer oxygen. If Breathing has Stopped give arti Respiration Keep Person Warm, quiet and get medical attention	
SECTION VI-REACTIVITY DATA	
HAZARDOUS POLYMERIZATION CANNOT OCCUR	
STABLETY STABLE INCOMPARABILITY AVOID CONTACT WITH:, STRONG OXIDIZING AGENTS	
SECTION VII-SPILL OR LEAK PROCEDURES	
ALLEGIAL TE BULGASED OR SPILLUD	
	P OTHER
SMALL SPILL ARSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT, SR Arsorhent Malerial and transfer to hood	
LARGE SPILL CLIMINATE ALL IGNITION COURCES FELARES, FLAMES INCLUDING LIGHTS, ELECTRICAL SPARKS) PERSONS NOT WEARING PROTECTIVE EQUIF SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN CO SIDE SPILL AT SOURCE, DIKE APPEA OF SPILL TO PREVENT GRREADING, PLOSALVAGE TANK REMATNING LIGHTS MAY BE TAKEN UP ON SAND. CLAY. FLOOR AUGORDENT, OR OTHER AUSORIENT MATERIAL AND SHOVELED INTO C	OMPLETED. Pump Liquid — Eariu
WASTE DISPOSAL METHOD:	
SMALL SPILE ALLOW VOLATILE POPTION TO EVAPORATE IN HOOD. ALLOW SUFF TIME FOR VAROUS TO COMPLETELY CLEAR HOOD DHCT WORK. DESTROY REF MATERIAL BY HURBILG IN AN IRON PAN.	16 (17 th) 16 (18 1 th)
LARGE SPILL DESTROY BY LIQUID INCINEPATION CONTAMINATED ARSORDENT MAY BE DEPOSITED IN A LANDFILL IN ACCORDA LOCAL, STATE AND SEDERAL PEGULATIONS	MOE WITH
SECTION VIII PROTECTIVE FOULPMENT TO HE USED	
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IMPLEMENT TO ACHOOSE EXCORPORE	
VENITIATION PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHA	
PROTECTIVE GLOVES: WEAR PESISTANT GLOVES SUCH AS , NATURAL RUBBER, NE EYE PROTECTION CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGUL EYE PROTECTION CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGUL	LATIONS
ARE ADVISOR SAFETY EQUIPMENT SUPPLIER)	
OTHER PROTECTIVE EQUIPMENT TO PREVENT PEPEATED OR PROLONGED SKIN CON Impervious clothing and hoots.	STACT, WEAR
SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS	
SECTION IX-SPECIAL TRANSPORT	
CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMP CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OP SOLID HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.	PTIED), ALL
OVEREXPOSURE TO MATERIAL HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLL OFFECTS IN LAHORATORY ANIMALS, OVEREXPOSURE TO COMPONENTS HAS A SEEN FOUND TO CAUSE THE FOLLOWING FIFECTS IN LAHORATORY ANIMALS ABNORMALITIES, KIDNEY DAMAGE, LUNG DAMAGE, SPLEEN DAMAGE, BRAIN	LIACIS
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MATERIAL SAFETY DATÁ SHEET

RECEIV 1986

3M 3M Center St. Paul, Minnesota 55144 (612) 733-1110





DUNS NO.: 00-617-30

Form 18863-C PWO

Ans d.

Trade Name

3M Brand Adhesive EC-750

3M I. D. Number

Chemical Family

62-0750-9530-7

AC&S Division

I. INGREDIENTS	CAS. #	*	TLV® (unit)
Methyl ethyl ketone (MEK)	78-93-3	38	200 ppm
Methyl isobutyl ketone (MIBK)	108-10-1	~ 10	50 ppm
Asbestos (bound, not free fibers)		- 2	2fibers/cc>5u
Acrylonitrile/butadiene elastomer, mixed			in length
glycerol estersof abietic acid, terpeneresin,			8 HR LIMIT
filler, tributoxyethyl phosphate, salicylic			working Like
acid, antioxidant and zinc oxide		- 50	

2. PHYSICAL DATA				
Boiling Point	MEK	175° F.	Solubility in Water	Slight
Vapor Pressure	@ 68° F.	80	Specific Gravity (H ₂ O±1)	0.98
Vapor Density (Air =	- 1)	<3	Percent Volatile .	~48
Evaporation Rate (ether *1)	~3	рН	N.A.

Appearance and Odor Brown syrup--ketone odor

3. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method) 20° F. (C.C.) Flammable Limits: LEL = 1.4 UEL = 11.5

Extinguishing Media

CO, foam, dry chemical

Special Fire Fighting Procedures

None

Unusual Fire and Explosion Hazards

None

4. ENVIRONMENTAL INFORMATION

Spill Response

Extinguish ignition sources. Collect spilled material and place in closed metal container.

Recommended Disposal

Contains heavy metals and solvents. Flash point is less than 140°F.(60°C). Send to hazardous waste management facility. Recommended disposal is in a secure landfill or by incineration. Contact your state agency or the appropriate EPA regional solid waste office for the location of such permitted facilities. Discarded and off-specification product has an EPA Hazardous Waste Number of D-001.

29113

TRADE NAME: 3M BY BRO						
Eye Contact						
Liquid and vapors	irritating to the	eyes.				
Skin Contact		mana a garani a manani i a rene manani manani ma				
Prolonged skin con	itact may defat ski	n leading to irritation	and dermatitis.			
Inhelation Concentrated vapor	s may cause dizzin	ess, headache, nauses a	and lack of coordination.			
Ingestion						
May produce gastro	ointestinal irritat:	ion and nausea.				
Suggested First Aid						
a p Skin contact: Was Inhalation: Pro	ediately flush eyes hysician. h with soap and was wide fresh air. l a physician.		for 10 minutes and call			
B. REACTIVITY DATA						
STABILITY Unstable	Conditions to Avoid					
NCOMPATABILITY	Materials to Avoid	Materials to Avoid				
AZARDOUS May Occur POLYMERIZATION May Not Occur	Conditions to Avoid					
Hazardous Decomposition Produc	:ts					
CO, CO ₂ , and smoke	particles					
. SPECIAL PROTECTION INFO	RMATION					
Protection Chemical go	gles	Skin Protection				
ntiletion	~	Rubber gloves				
Local exhaus	3t -					
spiratory and Special Protection Organic vand	or mask if ventilat	ion is not adequate.				
ner Protection						
PRECAUTIONARY INFORMA						
		flame. Use only in are nt vapor buildup. Avoi				
		nd prolonged or repeate				
Keep container clos						
DEPARTMENT OF TRANSPOR	TATION					
Proper Shipping Name PT AMMART P. T.T.NITTO N	ne	DOT Hazard Class FLAMMABLE LIQUID				
FLAMMABLE LIQUID, N		LPMMINDE PIGOTO	Issue Date Supersedes			
			Nov.1980 Oct.1979			

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any
use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any process
is the responsibility of the user.

´ PA

SECTION I	NAME	24 HOL	JR EMERGENCY	ASSIST
PRODUCT Isopropyl	Alcohol	SHELL	713-473-9461 800-424-9300	₹ } HE∧
CHEMICAL/ SYNONYMS IPA, Isopr	opanol, Propanol-2	HAZA	ARD RATING	FIR
CHEMICAL Alcohol		LEAST O MODERATE	SLIGHT 1 HIGH EXTREME	REACT
SHELL CODE 31105	C.A.S. NUMBER 67-63-0	2	3 4	

SECTION II	INGREDIE	NTS
COMPOSITION	%	TOXICITY DATA
sopropyl Alcohol	100	Oral LDso (rat) = 5.8g/kg
		Dermal LDso (rabbit) = 16.4
	-	Inhalation LCso (rat) = 12,000ppm (8 hrs.)
		12,000ppm (0 113.)
		,
	The second secon	
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•		

SECTION III HEALTH INFORMATION

Symptoms of overexposure include such affects as headache, dizziness, nausea, incoordination, drowsiness and loss of consciousness.

Eye Contact: Liquid or vapor contact can cause irritation.

Skin Contact: Prolonged and repeated contact can cause dryness and irritation.

Inhalation: High concentrations of vapor can irritate respiratory tradand may cause bronchopneumonia or pulmonary edema.

<u>Ingestion</u>: May cause marked and persistent nausea, vomiting and abdom: pain. If vomiting occurs following ingestion, aspiration (breathing) vomitus into the lungs can cause bronchopneumonia or pulmonary edema.

OCCUPATIONAL EXPOSURE LIMITS

AT. "LEE" SAWYER, INC.

JOBBER

SHELL OIL & SHELL CHEMICAL PRODUCTS

14117 Aetna St., Van Nuys, CA

786-8180 Box 369, Van Nuys, CA 91408

SECTION IV

OSHA-PEL/TWA = 400ppm ACGIH-TLV/TWA = 400ppm

-TLV/STEL = 500ppm

SECTION V EMERGENCY AND FIRST AID PROCEDURES EYE CONTACT: water for 15 minutes wh/ Flush V

Get med 1 attention.

holding eyelids open.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and shoes; do not reuse until cleaned. If persistent irritation

occurs, get medical attention.

INHALATION:

Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing.

Get medical attention.

INGESTION:

Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) Syrup of Ipecac. If Ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

SECTION VI	PHYSICAL DATA	
BOILING POINT 180	MELTING POINT -127	VAPOR PRESSURE 33@68°F (mmHg)
SPECIFIC GRAVITY (H ₂ 0=1)	% VOLATILE BY 100	VAPOR DENSITY 2.1 (AIR=1)
JLUBILITY IN Complete	EVAPORATION RATE (BUTYL ACETATE=1) 1.4	

APPEARANCE AND ODOR

Colorless, mobile liquid. Mild odor.

SECTION VII	 FIRE	AND	EXPLO	SION HAZARDS	3	1.00			
FLASH POINT AND METHOD USED				FLAMMABLE LIMITS	% VOLUME	IN AIR	_	LOWER	UPPER
53°F (TCC)								2	12
EXTINGUISHING MEDIA									

Use water fog, "alcohol" foam, dry chemical or CO2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Evacuate hazard area of unprotected personnel. Wear proper protective clothing including a NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water.

In the case of large fires, also cool surrounding equipment and structures with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

SECTION VIII	<u>', '' '</u>	REACT	IVITY	No. 1 To the	to the with the	4 - 15 st	
STABILITY UNSTABLE	X STABLE	HAZARDOUS	POLYMERIA	M	AY OCCUR	xw	ILL NO
CONDITIONS AND MATERIALS TO	AVOID						
Avoid heat, sparks							
Will attack aluming abrasion or high to			xide film	n is pene	trated ((e.g.	ÞУ
HAZARDOUS DECOMPOSITION PRO	DUCTS						
Carbon monoxide and combustion.	ıd unidenti:	fied orga	nic compo	ounds may	be form	ned di	urin
		~					
		ENADI OVEE I	PROTECTION				
SECTION IX RESPIRATORY PROTECTION		ENTLOTEL	HOTECHOIL				
If exposure may or NIOSH-approved res	spirator to er a full-f	prevent ace, atmo	overexpos sphere-su	sure. In	accord	with	29
Wear impervious glvent skin contact.	loves and o . Wear che	ther prot mical gog	ective cl	lothing a	s requii ye conta	red to	o pr
ADDITIONAL PROTECTIVE MEASUR	IFS .						
Use explosion-proc		ion as re	quired to	control	vapor o	once	ntra
			COCTECTI	ON			
SECTION X SPILL OR LEAK PROCEDURES	ENV	IKUNMENTA	L PROTECTION	ON			
WARNING. Flammabl	le. Elimin	ate all i	gnition s	sources.	Handlir	ıg eq	uipm
Large spills: Eva	to prevent	bagard ar	ea of unt	protected	personi	nel.	Wea
appropriate respir	rator and n	nazara ur rotective	clothing	. Shut	off sour	ce o	f le
land if cafe to de	n so Dike	and cont	ain. If	vapor cl	oud form	ns, w	ater
may be used to sur	opress: CON	tain run-	off. Ren	nove with	vacuum	truc	ks o
pump to storage/sa	lvage vess	els. Soa	k up resi	idue with	an abso	orben	t su
as clay, sand or o	ther suita	ble mater	ial; plac	e in non	-leaking	g con	tain
for proper dispose	al. Flush	area with	water to	remove	trace re	∍siđu	e;
dispose of flush s	solutions a	s above.					
Small spills: tak	e up with	an absorb	ent mater	rial and	place in	non	-lea
containers: seal t	ightly for	proper d	isposal.				
Place in a disposa	al facility	approved	under RO	CRA regul	ations i	for h	azar
waste (See Sec. XI	III). Use	non-leaki	ng contai	iners, se	al tight	:ly a	nd 1
properly.			_				
ENVIRONMENTAL HAZARDS							

SPECTION XI WAPNING. Flammable id. Keep away from heat, parks and open flames. Keep containers tightly closed. Store away from strong oxidizing agents in a cool, dry place with adequate explosion-proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded. Do NoT weld, heat or drill on or near container; even emptied containers can contain explosive vapors. Aluminum containers are not recommended for storage. Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse. SECTION XII TRANSPORTATION REQUIREMENTS DEPARTMENT OF FLAMMABLE LIQUID COMBUSTIBLE LIQUID OXIDIZING MATERIAL OF GAS OF THANSPORTATION FLAMMABLE GAS POISONCLASS A CORROSIVE MATERIAL OTHER-Specify below DOI. FROMER SHIPPING NAME LSOPIODARD OTHER SCULATIONS DOI. FROMER SHIPPING NAME LSOPIODARD OTHER SCULATIONS DOI. TROOFER SHIPPING NAME LSOPIODARD OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE REGULATORY CONTROLS TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE		
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Closed. Store away from strong oxidizing agents in a cool, dry place with adequate explosion-proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, Jontainers must be bonded and grounded. Do NOT weld, heat or drill on or near container; even emptied containers can contain explosive vapors. Aluminum containers are not recommended for storage. Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse. SECTION XII TRANSPORTATION REQUIREMENTS DEPARTMENT OF TRANSPORTATION REQUIREMENTS TRANSPORTATION FLAMMABLE LIQUID COMBUSTIBLE LIQUID OXIDIZING MATERIAL GAS DOOT. REGULATIONS DOOT. REGULATIONS CLASSIFICATION FLAMMABLE GAS POISON.CLASS A CORROSIVE MATERIAL OTHER-Specify below D.O.T. PROPER SHIPPING NAME LSODIODANOL OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS PAPOA,OSHAUSDA,CPSC.NIC. EPA - Resource Conservation and Recovery Act (RCRA) Regulations As produced, this material is a product and not a waste. If discarded or intended to be discarded as is, it is an ignitable hazardous waste as	WARNING. Flammable (id.	
with adequate explosion-proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded. Do NOT weld, heat or drill on or near container; even emptied containers can contain explosive vapors. Aluminum containers are not recommended for storage. Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse. SECTION XII TRANSPORTATION REQUIREMENTS DEPARTMENT OF TRANSPORTATION REQUIREMENTS DEPARTMENT OF TRANSPORTATION POISON.CLASS A CORROSIVE MATERIAL OTHER-SPECITY DELOW DO.T. REGULATIONS B IRRITATING MATERIAL OTHER-SPECITY DELOW DO.T. REGULATIONS B OTHER REQUIREMENTS D.O.T. PROPER SHIPPING NAME I SOPTOPANO OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS SECTION XIII OTHER REGULATORY CONTROLS PAPOA.OSHAUSDA.CPSC.etc. EPA - Resource Conservation and Recovery Act (RCRA) Regulations As produced, this material is a product and not a waste. If discarded or intended to be discarded as is, it is an ignitable hazardous waste as	Keep away from heat, warks and open flames. Keep ontainers tightly	
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ndee or third persons proximately caused by abnormal use of are material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

BE SAFE

READ OUR PRODUCT SAFETY INFORMATION ... AND

PASS IT ON

PRODUCT LIABILITY LAW REQUIRES IT)

SHELL OIL COMPANY PRODUCT SAFETY AND COMPLIANCE OIL AND CHEMICAL PRODUCTS P.O. BOX 4320 **HOUSTON.TEXAS 77210**

DATE PREPARED

June 17, 1982

CHASE MILLIANCAL COMI AIVI

'RIAL CHEMICAL & SOLVENTS DIVISION • 1 7 ESMOND STREET • PACOIMA, CALIFORNIA (. . • TELEPHONE (. .) 899.7411

214-B

MATERIAL SAFETY DATA SHEET

MSDS NUMBER

PAGE 1 OF 4

97002 (REV 1-83)

SECTION	I NAME		24 HOUR EMERGENCY	ASSISTANCE
PRODUCT	LACQUER THINNER		713-473-9461 CHEMTREC 800-424-9300	HEALTH 2
CHEMICAL/ SYNONYMS	THINNER		HAZARD RATING	FIRE 3
CHEMICAL FAMILY	BLEND		LEAST SLIGHT O 1 MODERATE HIGH EXTREME	BEACTIVITY O
CODE	214 C.A.S. NUMBER	-	2 3 4	

SECTION II	IN.	GREDIEN	NTS
COMPOSITION		7 %	TOXICITY DATA
TOLUENE		22.5	Oral LDso (rat) ~ 3 g/kg
KETONES	•	50	Dermal LDs σ (rbt) = 4 g/kg
PETROLEUM HYDROCARBONS		22.5	Inh LCs (rat) = 72000 ppm
GLYCOL ETHERS	·	5	(4 hr)
			·
• •			
•	•		
	-		
			•

SECTION III HEALTH INFORMATION

Acute Toxicity: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness, nausea, and loss of consciousness.

Eye Contact: Short-term liquid or vapor contact may result in slight eye irritation. Prolonged and repeated contact may be more irritating.

Skin Contact: Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis.

Inhalation: High concentrations or prolonged exposure to lower concentrations may be lightly irritating to mucous membranes. Irritating to Nose Inroat. Overexposure can cause headache, nausea, vomiting and drowsiness. Ingestion: Liquid ingestion may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities in the lungs may result in chemical pneumonitis and pulmonary edema/hemorrhage.

NOTE: Minor embryotoxic/fetotoxic effects have been observed in laboratory rats exposed for most of the gestation period by the inhalation route.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS ACGIH-TLV/TWA = 160 ppm (skin)

-TLV/STEL = 210 ppm (skin)

OSHA-PEL/TWA = 125.ppm

-PEL/Ceiling = 80 ppm

WIATERIAL SAFF Y DATA SHEET

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NUMBER >

PAGE 2 OF 4

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes while holding eyelids open.

Get medical attention.

SKIN CONTACT: Flush with water while removing contaminated clothing and

shoes. Follow by washing with soap and water. Do not reuse clothing or shoes until cleaned. If irritation persists,

get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing

is difficult. Give artificial respiration if not breathing.

Get medical attention.

INGESTION: Do not induce vomiting. If vomiting occurs spontaneously,

keep head below hips to prevent aspiration of liquid into

the lungs. Get medical attention.*

*NOTE TO THE PHYSICIAN: If more than 2.0 ml per kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

SECTION VI	PHYSICAL DATA	
BOILING POINT 235-242	MELTING POINT	VAPOR PRESSURE 40-45 (mmHg)
SPECIFIC .83835 (H ₂ 0=1)	% VOLATILE BY 50	VAPOR DENSITY 3.3
SOLUBILITY IN Negligible	EVAPORATION RATE 2.37	

APPEARANCE AND ODOR

Colorless, mobile liquid. Aromatic, pungent odor.

SECTION VII	FIRE AND EX	KPLOSION HAZARDS			3. 1. 0	
FLASH POINT AND METHOD USED	• •	FLAMMABLE LIMITS!% VOLUME	IN AIR	LOWER	UPPER	
55.5°F (TCC)				,		

EXTINGUISHING MEDIA

Use water fog, foam, dry chemical or CO:. Do not use a direct stream of water. Product will float and can be reignited on surface of water. SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Evacuate hazard area of unprotected personnel. Wear proper protective clothing including a NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water.

In the case of large fires, also cool surrounding equipment and structures with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

MATERIAL SASSIY DATA SHEET DS NUMBER 97004 (10-79) PAGE 3 OF 4 SECTION VIII REACTIVITY STABILITY > UNSTABLE X STABLE HAZARDOUS POLYMERIZATION MAY OCCUR X WILL NOT OCCUR CONDITIONS AND MATERIALS TO AVOID Avoid heat, sparks, open flames and contact with strong oxidizing agents. Will attack aluminum if the surface oxide film is penetrated which can result in the release of hydrogen gas. HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide and unidentified organic compounds may be formed during combustion. SECTION IX EMPLOYEE PROTECTION RESPIRATORY PROTECTION Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors. PROTECTIVE CLOTHING Wear impervious gloves and protective clothing as required to prevent skin contact. Wear chemical goggles to prevent eye contact. ADDITIONAL PROTECTIVE MEASURES Use explosion-proof ventilation as required to control vapor concentrations. SECTION X ENVIRONMENTAL PROTECTION SPILL OR LEAK PROCEDURES WARNING. Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Large spills: Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. Small spills: take up with an absorbent material and place in non-leaking

COntainers: seal tightly for proper disposal.

WASTE DISPOSAL

Place in a disposal facility approved under PCPA regulations for hazardous

Place in a disposal facility approved under RCRA regulations for hazardous waste (See Sec. XIII). Use non-leaking containers, seal tightly and label properly.

ENVIRONMENTAL HAZARDS

This product is designated as a hazardous substance under the Clean Water Act. KEEP OUT OF SURFACE WATERS OR SEWERS ENTERING OR LEADING TO SURFACE WATERS. (See Section XIII).

MATERIAL SAFL / DATA SHEET

MSL NUMBER

97005 (REV. 7-82)

PAGE 4 OF 4

SPECIAL PRECAUTIONS

WARNING. Flammable Liquid.

SECTION XI

Keep away from heat, sparks and open flames. Keep containers tightly closed. Store away from strong oxidizing agents in a cool, dry place with adequate explosion-proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded.

Do NOT weld, heat or drill on or near container; even emptied containers can contain explosive vapors.

Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles, including shoes, that cannot be decontaminated.

	oe decontaminated.
CCOTION VII	TRANSPORTATION REQUIREMENTS
SECTION XII	TRANSPORTATION REQUIREMENTS
DEPARTMENT	X FLAMMABLE LIQUID COMBUSTIBLE LIQUID OXIDIZING MATERIAL NON-FLAMMABLE
OF TRANSPORTATION	FLAMMABLE SOLID POISON, CLASS A CORROSIVE MATERIAL NOT HAZARDOUS BY
CLASSIFICATION	FLAMMABLE GAS POISON, CLASS B IRRITATING MATERIAL OTHER-Specify below
D.O.T. PROPER SHIPPING	NAME
LACQUER THIN	NER. PAINT RELATED MATERIAL
D.O.T. ID.# =	NA1263. RQ Paint Related Material (1000 lb). Also see
Sec. XIII, C	lgan Water Act.
SECTION XIII	OTHER REGULATORY CONTROLS
	·
)	Vater Act (CWA)
	is designated as a hazardous substance under Section 311 of
	er Act. Spills entering (a) surface waters or (b) any water-
1	wers entering/leading to surface waters MUST be reported
	to the National Response Center, 800-424-8802. The reportable
quantity for	Lacquer Thinner is 1000 lb (145 gal).
1 -	e Conservation and Recovery Act (RCRA) Regulations
i	has been designated by the EPA (RCRA 40 CFR 261.33) as a
	te if it is spilled, discarded or intended to be discarded as
is.	
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BE SAFE

READ OUR PRODUCT SAFETY INFORMATION ... AND PASS IT ON

PRODUCT LIABILITY LAW REQUIRES IT[

DATÉ PREPARED

August 1, 1984

MATERIAL SAFETY DATA SHEET

		SECT	TION I			
Monufacturer & Name MCB Manufa	ect	uring	Chemists Emergia	631-64	45	
Address (19909 High	lan	d Ave	nue, Norwood, Ohio	452	12	
Chemical Name and Sonony Sulfurio A	Aci	đ	Trade Name and Synan	vms		
Chamical Family Acid		,	Formula H ₂ SO ₄			
SECTION	1 1!	HAZAR	DOUS INGREDIENTS			
	ĭ	TLY	1	71366	-	TLV
PAINTS, PRESERVATIVES, & SOLVENTS Picments	-	(Units)	ALLOYS AND METALLIC COA	I TINGS	· -	(Units)
Catalyst	 		Alloys			
Vehicle		ļ	Metallic Coatings			
Solvents		ļ	Filler Metal		<u> </u>	
Additives		!	Plus Coating or Core Flux Others			
	<u> </u>	<u> </u>	Uners			
Ghers	<u> </u>	<u> </u>				TEV
MAZARDOUS MIXTURES O) F 0	THER LIG	UIDS, SOLIDS, OR GASES		%	(U-its)
						
•						
·						
SEC	TIO	N III PI	YSICAL DATA			
Bailing Point (PF.)		37° _F	Specific Gravity (H ₂ 0=1)		1,	8438
Yapor Pressure (mm Hg.)	├─	37 F	Percent Voiatile		╬	0430
Vapor Density (Air-1)	-		By Volume (7:1) Evaporation Rate	<u> </u>	╀	
Solubility in Mater	-		(-	
	<u> </u>		-			
Accessorice and Odor Colorles	S	liqui	ā			
SECTION IV.	IRE	AND E	XPLOSION HAZARD DATA			
Flash Paint (Method Used))t		Flommoble Limits	Lel	-	Uel
Extincuishing Media	-	· · · · · · · · · · · · · · · · · · ·				
Special Fire Fighting Procedures				, , , , , , , , , , , , , , , , , , ,		
Venesual Fire and Explosion Hazards EX	it:	s tox	ic SO, fumes when	heated.	·	Forms
corrosive liquid from t				;		
			•			

			SECTI	DN V H	EALTH HA	ZARD DA	TA		
Threshold Limit]	mg/						
Effects of Overe	rposure				ere bur	25 50	_1_:		
						15_10	skin.		
Emergency and I			F1	ush in	umediate	elv wi	th water.	O- 11	
See MCA (Chemi	<u>cal Sa</u>	fety	Data	Sheet S	D-20	er water.	Call	docto
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	Stable		 	Conditio	ns to A void				
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Hozardous Decom			<u></u>						
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teps to be Taken ost Disposal Meth		Moterial is R	elessed o	ar Spilled	Wash	area	with wat		
		Moterial is R	elessed o	ar Spilled	Wash	area			
		Moterial is R	elessed o	ar Spilled	Wash	area	with wat		
		Moterial is R	elessed o	ar Spilled	Wash	area	with wat		
ost Disposal Meth	od .	Neutral ECTION V	ize	with	Wash alkali	area	with wat		
	od .	Neutral ECTION V	ize	with	Wash	area	with wat		
ost Disposal Meth	od .	Neutral ECTION V	ize	with	Wash alkali	area	with wat		
ost Disposal Meth	S on (Spec	Neutral ECTION V	ize	with	Wash alkali	area and fl	with wat ush with		
ost Disposal Meth	od S an (Spec ocal Ex	Neutral ECTION V ify type) hauss al (General)	ize	with	Wash alkali 	area and fl	with wat ush with		
spiratory Protection	S on (Spec ocal Ex	Neutral ECTION V ify type) house of (General)	ize	with	Wash alkali ROTECTIO!	area and fl	with wat ush with	water.	
ost Disposal Meth	S on (Spec ocal Ex	Neutral ECTION V ify type) house of (General)	ize	with	Wash alkali ROTECTIO!	area and fl	with wat ush with	water.	
spiratory Protection	S on (Spec ocal Ex	Moterial is R. Neutral ECTION V ify type) hauss al (General) Fubbe	ize III SPE	with CIAL PI	Wash alkali ROTECTIO:	area and fl	with wat ush with	water.	
spiratory Protection stillation steetive Gloves	Son (Spec.ocal Ex	Moterial is R. Neutral ECTION V ify type) hauss al (General) Fubbe rubb	ize III SPE	with CIAL PI X ab ap	Wash alkali ROTECTIO! Eye Prefecti ron PRECAUT	area and fl INFORM Speci	with wat ush with MATION goggles	water.	
spiratory Protection stillation sective Gloves er Protective Equations to be Tok	od San (Spec.ocal Ex	Moterial is R. Neutral ECTION V ify type) hauss al (General) Fubbe rubb	ize III SPE	with CIAL PI X ab ap	Wash alkali ROTECTIO! Eye Prefecti ron PRECAUT	area and fl INFORM Speci	with wat ush with MATION goggles	water.	
spiratory Protection stillation steetive Gloves	od San (Spec.ocal Ex	Moterial is R. Neutral ECTION V ify type) hauss al (General) Fubbe rubb	ize III SPE	with CIAL PI X ab ap	Wash alkali ROTECTIO! Eye Prefecti ron PRECAUT	area and fl INFORM Speci	with wat ush with	water.	

*SD-20 can be obtained from the Manufacturing Chemists Association 1825 Connecticut Avenue, N. W. Washington, D. C. 20009

GRIGINAL

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

		SECT	TION I				
MANUFACTURER'S NAME				EMERGENC	Y TELEPHONE	NO.	
GPS Industries				(213) 337	-1255		
ADDRESS (Number, Street, City, State, and ZIP Co 13280 Amar Rd.; Industry, CA	nde) 9174	16					
CHEMICAL NAME AND SYNONYMS Muriatic (Hydrochloric) Acid				ic Acid	NONYNIS		
CHEMICAL FAMILY			FORMULA HC1				
			1102				
SECTION	111 -	HAZAI	RDOUS INGREDIE	ENTS			
PAINTS, PRESERVATIVES, & SOLVENTS	×	TLV (Units)	ALLOYS AND A	METALLIC CO	ATINGS	×	TLV (Units)
PIGMENTS			BASE METAL				
CATALYST	<u> </u>	<u> </u>	ALLOYS				
VEHICLE			METALLIC COATING	is			
SOLVENTS			FILLER METAL PLUS COATING OR C	ORE FLUX			
ADDITIVES			OTHERS				
OTHERS							
HAZARDOUS MIXTURES	OF C	THER LIC	DUIDS, SOLIDS, OR GA	SES		×	TLV (Units)
		-					
. SEC	TION	J III . P	HYSICAL DATA	•			
BOILING POINT (*F.) 20.2° Be Mix	7	230°	SPECIFIC GRAVITY	H ₂ O=1) 20	n°	1.	160
VAPOR PRESSURE (mm He.) 230°F	7-	60mm	PERCENT, VOLATILE				00%
VAPOR DENSITY (AIR-1)	╁╧	O U.L	EVAPORATION RATE				
SOLUBILITY IN WATER	Inf	inite					
APPEARANCE AND ODOR Clear, color	less	to fa	int yellow, liq	uid with	pungent o	dor	
SECTION IV -	FIRE	AND E	XPLOSION HAZA	RD DATA			
FLASH POINT (Method used) none			FLAMMABLE LIM	TS	اها		Uel
EXTINGUISHING MEDIA							
SPECIAL FIRE FIGHTING PROCEDURES							

UNUSUAL FIRE AND EXPLOSION HAZARDS Reacts upon contact with metals to produce hydrogen

which may form explosive mixtures with air.

·							
	_	CTION V	· HEA	LTH HAZARD	DA		
THRESHOLD LIMI (Ceiling)	- 5 ppm; 7 mi	lligrams	per cu	bic meter of	air		
EFFECTS OF OVE	REXPOSURE			yes and muco		of respirat	
gastrointe	estinal tract.					J. TCSPITAL	St A gilon
EMERGENCY AND	FIRST AID PROCEDU		,				
EYES: Flush contaminated	with, large amo	speed ount_of.w	in remarkant	moval of hyd SKIN: Flus ve to fresh	<u>rochloric aci</u> h thoroughtly	<u>d is importa</u>	int.
	clothing; INI Dilute, by drink	iALATION: dng wate	r. lim	ve to fresh e water or m	ir; administ	er oxygen a	required.
occur. Get m	oilute by dring	or for a	not in	duce vomitini	although s	pontaneous y	comiting ma
unless direct	nedical attent; ted to do so			EACTIVITY D	_	y oils or of vsician.	intments
STABILITY	T. De Tant	, , , , , , , , , , , , , , , , , , , 		S TO AVOID	31A -/ F	,	
	UNSTABLE						
	STABLE			-			
Contact with	v (Maierials to avoid) metals release	s hydroge	en; cor	ntact with st	ulfides relea	ses poisonou	is flammah
HAZAROOUS DEC	OMPOSITION PRODUC	:TS		hloride		P32331130	H
	MAY OCCUP]	CONDITIONS TO	AVOID		
HAZARDOUS POLYMERIZATION			 		rately from o		
	WILL NOT O	CCUR		sulfides ar	č syanides.	- acid, chio	races,
•	SECT	ON VII	SPILL (OR LEAK PRO	CEDURES		
steps to be take Neutralize wi	EN IN CASE MATERIA th soda ash or	lime and	SEO OA S I flush	PILLED water:	or flush to	holding non	d for
pH adjustm en t	before discha	rge to se	wer; o	r add causti	c directly to	sewer to p	rotect
s <u>ewer system</u>	piping.		· W ·			-	
WASTE DISPOSAL I	METHOD						
	th soda ash, 1:	imestone,	lime	or caustic b	efore dischar	ging to stre	eam
or to sewer s	ystem.						
,							
						•	
	SECTION V	/III - SPE	CIAL PF	ROTECTION IN	FORMATION		
RESPIRATORY PRO	TECTION (Specify type canister; for	r) emergenc	1 e c c	elf-contained	i hearthing a	DD2F25C	
VENTILATION	LOCAL EXHAUST		103, 30	err contained	SPECIAL	pparacus.	
	MECHANICAL /Gene	ral)			OTMER		
PROTECTIVE GLOV		- •		EYE PROTECTION			
ubber, neopre					ery goggles:	plus face s	hield wher
OT	e equipment lothing, rubbe	r shoes d	or boot				
				IAL PRECAUT			
PRECAUTIONS TO A	E TAKEN IN HANDL				10/13		
tore in cool,	well-ventilat	ed or ope	en, are	ea separate f	rom oxidizin	g agents, ni	tric
cid, chlorate sed for handl	s, sulfides, e ing hydrochlor NS	tc. Rubt ic acid.	per-lin	ned stell, Ha	veg, glass a	nd ceramic w	are



MATERIAL SAFETY DATA SHEET



MANUFACTURED PRODUCTS DIVISION

Approved by U. S Department of Labor Essentially Similar to Form OSHA-20

SUPPLIER	Ch	emtech Industries, Inc.		Phone:	800-325-3332	or 314-966-9900
ADDRESS	99	09 Clayton Road, St. Louis, M	O 63124			
CHEMICAL NAME AND SYNONYMS	Hy	drofluoric Acid 70% Solution	TRADE NAME		Hydrofluor	ic Acid Solution
CHEMICAL FAMILY	Inc	organic Acid	FORMULA		HF	
		I. PHY	SICAL D	ATA		
BOILING RANGE	15:	2 ^o F	API GRAVITY		na	•
SPECIFIC GRAVITY Water=1)	1.2	6	POUNDS/GAL	-	10.5	•
APOR PRESSURE	130		VAPOR DENS (Air=1)	iτγ	1.0	
SOLUBILITY N WATER	COI	mplete	SOLUBILITY II	N ACID	complete	
EVAPORATION RAT	6	s than 1	PER CENT VO BY VOLUME	LATILE	~40%	•
APPEARANCE	 	ar, colorless liquid	ODOR		penetrating	odor
KAURI BUTANOL SOLVENCY	na		ODOR		na	•
	1	II. HAZARDO	US ING	REDI	ENTS	
		MATERIAL	<u> </u>		VOLUME PER CENT	TLV (Units)
-						
		III. FIRE AND EXP	LOSION	HAZ	ARD DATA	
OWER FLAMMABLE N AIR (Per Cent by V		na	D.O.T	. CLASSII	FICATION	corrosive
LASH POINT (est Method)		na	FLAN	MABILIT	Y CLASSIFICATION	none
XTINGUISHING IEDIA	na					
	non-c	combustible but difficult to co	ntain becau	se it c	corrodes most su	ubstances.
L FIRE GniING ROCEDURES						

_		(. HEALTH	HAZARD DA	AT	
THRESHOL		annt)				
LIMIT VALU	- ' '	•	to eves and skin v	which may not b	e immedi	ately painful or visible.
E OTS OF C EXPOSE	Fycassis		•			tbone, cough, muscle
	spasms,	shock, convi	Ilsions.			
EMERGENCY AND FIRST A PROCEDURE	Skin: W	ash with soa al. Eyes: Fl		ing with a 3% still medical atte	olution of	Attention. aquaeous ammonia will be vailable. Inhalation: Remov
			V. REACT	IVITY DATA	1	
S1	ABILITY			1,,,,,,,,	ADATIBULITY	Corrodes most materials
UNSTABLE	×	CONDITIONS TO AVOID			PATIBILITY ials to Avoid)	Store only in approved containers.
MAY OCCUR	POLYMERIZATION WILL NOT OCCUP	CONDITIONS TO AVOID		DECO	MPOSITION	Hydrogen gas from contact with some metals.
	, •	VI	SPILL OR LE			
	1		ing vapors. Avoid			or clothes. Wear
STEPS TO BE MATERIAL IS OR SPILLED	TAKEN IF	protective ed		lize with soda a	sh. Flush	with plenty of water
VASTE DISPO	SAL METHOD		accordance with			
		VII. SPE	CIAL PROTE	CTION INF	ORMAT	ION
RESPIRATORY (Specify type)	PROTECTION	Self co	ontained breathing e.	device or		•
VENTILATION	LOCAL EXHAUS	Csdan	y required to mair	ntain below TLV.	j	ils of construction must be n resistant.
ROTECTIVE G			ene gloves		full fac	e shield.
THER PROTE	CTIVE EQUIPMEN		rized boots, hat, a	nd acid		· ·
	•					
	Avoid control of cold clothing medical	be immedial water -up to before re-us	eyes or skin. Avoitely painful or visi 3-4 hours or until	ble. In case of medical attenti ct, flush immed	contact, on is obta	cause serious burns which flush with large quantities inned. Remove and wash h cold water; prompt
RECAUTIONA ABELING	l				~	
			,			
	greases.	Avoid direc	stored in cool pla t sunlight. Do not ndition of prolonge	store longer th	up. Avoid	d contact with oils or ary; containers may

Slight Reactivity Hazard

Non-combustible

0

Soda Products Division
Diamond Sharnrock
351 Phelps Court
P O. Box 2300
Irving, Texas 75061
Phone 214 659-7000

Mat rial Safety

Data Sheet



GENERAL INFORMATION

1505 I PRODUCT IDENTIFICATION N'ANUFACTURER & NAME REGULAR TELEPHONE NO Contact Local Sales Offic DIAMOND SHAMROCK CORPORATION EMERGENCY TELEPHONE NO 216 357-7070 4009ESS Divisional Technical Center, P.O. Box 191, Painesville, Ohio 44077 TRACE NAME (1974)CHROMIC ACID - TECHNICAL - FLAKE OR GROUND SYNCHIAIS Materials" Chromic Trioxide, Chromic Anhydride, CrOa II HAZARDOUS INGREDIENTS Hazardous MATERIAL OR COMPONENT HAZARD DATA Chromic Trioxide upationally 100 PEL' = 0.05 mg/m' (as Cr) ŏ 3 Syste

MELTING POINT

VAPOR PRESSURE

387 · F

SOLUBILITY IN H,O % BY WT

EVAPORATION RATE (BUTYL ACETATE/1)

Density @ 20"C 40-80 Lbs/Cu. Ft.

A regulated D O T Oxidizer

Ralings based on NIOSH Thenh

-

11 A 110t Applicable

III PHYSICAL DATA

SPECIFIC GRAVITY IN,O 1,

JAPOP DENSITY IAIR 1;

ACOU DITA BUILD SOOP

15 YOUATHES BY YOU

*OSHA Permissible Exposure Limit (PEL)

N/A

N/A

N/A

2.7 @ 20°C

Solid, dark red flakes or powder; no odor

0.2 - 2.0 depending on concentration

SP-MSI

FREEZING POINT

N/A

A oil or alterning ammendation and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the control of the product to

Data Sheet

FIRE AND EXPLOSION DATA			
SH POINT (TEST METHOD)	AUTOIGNIT	TION TEMPERATUR	RE .
N/A		N/A	
FLAMMARLE LIMITS IN AIR . BY VOL	LOWER		FIBI.EB
N/A	N A	\	N A
EXTINGUISHING MEDIA	•		
CO ₂ , dry chemical, or water			
SPECIAL FIRE FIGHTING PROCEDURES			
Under lire conditions, decomposing i	material may form a hot viscou	s foam.	
UNUSUAL FIRE AND FXPLOSION HAZARD			
Chromic acid is not combustible, but	it may ignile oxidizable substa	inces.	
V HEALTH HAZARD INFORMATION			
HEALTH HAZARD DATA () (al LD ₅₀ > 50 Dermal LD ₅₀ > 20	<500 mg-kg (rat) <200 ing-kg (rabbil)	LC ₅₀ > 0.39	95 mg/t air trat)
PLOUTES OF EXPOSIGNE			
AND ATOM			
INHALATION Inhalation of dusts or mints may chaise	erritation of the nasal septum a	nd respiratory fra	gt. Profonged or reposterie sposure m
cause ulceration and perforation of the	re nasal septum.	· · · · · · · · · · · · · · · · · · ·	
In case of contact, wash immediately "chronic sores"	with soap and water. Contact v	vilh broken skin n	nay lead to formation of firmly margin
SKIN ABSCIRPTICIN	ACTION 10 (10 PT 10		
Massive ovinexposure to solutions co	ould lead to electrolyte imbalar	nce, kidney failur	e, and death.
EYE CONTACT Overexposure will cause extreme burn level concentrations may cause mode	ns that may result in permanent	damage to the ey	es and even blindness. Exposure-to lo
INGESTION			
Can cause extreme tissue destruction	and death as a result of elect	rolyle imbalance	and kidney failure
FFECTS OF OVEREXPOSURE			
ACUTE OVEREXPOSURE Causes extreme all severe irritation of nasal septum and re		l with broken skin	may cause chromesores. May caus
CHRONIC OVEREXPOSURE Frolonged or representative especially with broken skin, may caus	eated eye contact may cause "chrome sores", ulceration		Prolonged or repealed skin confact of the nasal septum may result from
prolonged or repgated inhalation of chi MERGENCY AND FIRST AID PROCEDURES	romic ácid.		
EYES Immediately flush eyes with plenty of washing eyes within 1 minute is essen	Object is to seek medical attent afer for al least 15 minutes hold: Ital to achieve maximum effect	ing eyelids aparl I	o ensure flushing of entire eye surface edical attention immediately
SKIN Wash contaminated areas with plenty of reuse. Discard footwear which cannot be	soap and water. Remove contain be decontaminated. Seek medi	ninated clothing a callattention imm	nd foolwear and wash clothing before
INHALATION	<u> </u>		
Get person out of contaminated area to fr be administered, if readily available, firig	esh air. If breathing has stoppe jate nasaf passages and mouth	d, artificial respira with salt water	ation should be slarted. Oxygen may Seek medical attention in mediately.
INGESTION If swallowed. Do Not Induce Vomiting	Give large quantities of water	If available give	o several classes of nets. Never give
anything by mouth to an unconscious p	erson. Cover eyes to exclude t	light Seek Medic	at Attention Immediately

NOTES TO PHYSICIAN

Missive dermal overexposure to solutions of chromic acid could fead to etc. Trolyte imbalance, ketney failure, and leaff. Death has been avoided in several such cases through the use of early renal dialysis. Skill is seen may be treated by removal from exposures, daily cleaning and debridement, and application of antibiotic stream and difference of the control solution resolution.

VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

Under normal use conditions, chromic acid is stable

INCOMEATIBILITY

Chromic acid is a strong oxidizing agent, even in solution. Avoid contact with organic materials, oils, greases or any easily oxidizable material. Chromic acid is hydroscopic. Do not store in humid places

HAZARDOUS DECOMPOSITION PRODUCTS

None

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

None

VII SPILL OR LEAK PROCEDURES

STEES TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Leaks should be stopped. Solids should be ideaned up immediately with a shovel to remove as much material as possible Beinaining traces of material should be neutralized. Then dampened with water. Dampened material should be covered with ubscripint material. Place material in closed containers, tabet, and dispose of in approved chemical waste disposal area after treating waste material with appropriate waste disposal method (see below).

"IF PERSON "IT CHEMICALS

Reducing buxavalent chromium with sodium bisulfite, sodium sulfite, lerrous chloride, ferrous sulfate. Neutralize with sodium bicarbonate (soda ash) or time.

LATTE DISPOSAL METHOR

Hexavalent chromium in solution, may be reduced to trivatent chromium by reducing agents, srich as sedium bisutlite, sodium suffice, suffice suffice dioxide, or ferrous sulfate or chloride. The reduced chromium may then be precipitated as the chromic oxide by neutralizing to a pH of 7.5 with soda ash, caristic soda, or time. The solid material may he disposed of via an approved chemical waste landful. Dispose of in accordance with all Federal, state, and local health pollution requirements.

VIII INDUSTRIAL HYGIENE CONTROL MEASURES

FILTH A FIGH REQUIREMENTS

Good industrial hygiene practice dictates that the work area be provided with adequate local exhaust ventilation to maintain the air concentration of chromic trioxide below 0.05 mg/m² (as Cr) as required by OSHA. The number of persons exposed should be minimized. A NIOSH-approved respirator for acid dusts, mists, or vapors must be used it exposure levels are above the PEL until exposures are controlled.

PECIFIC PERSONAL PROJECTIVE EQUIPMENT

HESPIRATORY (SPECIFY IN DETAIL)

A NIOSH-approved respirator for acid dusts, mists, or vapors.

E∨E

Chemical splash goggles.

, r. *

TO UVE "

Industrial grade rubber or plastic gloves

THERE IS CHARRY, AND LOURSMENT

Clean hard halfs, rubber safety shoes or bools, and profective clotting should be worn when handling chromic trioxide. Profective stothing should be changed at least itally. Eve both and safety shower should be provided in all areas in which is come to soldered and or handles.

SPECIAL PRECAUTIONS

CAUTIONARY STATEMENTS

OTHER HANDLING AND STORAGE REQUIREMENTS

Do not store in areas of high humidity.

Do not store in close proximity to combustible materials as chromic acid is an oxidizing agent (yellow label).

Store in tightly closed containers away from sources of heat.



DEPARTMENT OF TRANSPORTATION INFORMATION
PROPER SHIPPING NAME: Chromic Acid. Solid
HAZARD CLASS: Oxidizer NA1463
HAZARDOUS SUBSTANCE: RO 1.000 lbs or more in a single container

Electro Chemicals Division Diamond Shamrock Corpd 1100 Superior Avenue

Cleveland, Ohio 44114 216/694-5000

Mate I Safety



Slight Reactivity Hazard

0

Highly Hazardous

Ratings based on NIOSH

1181-A

Diamond Shamrock

GENERAL INFORMATION Anhydrous Caustic Soda is a white, hygroscopic corrosive solid with no distinct odor.

Data Sheet

MANUFACTURER'S NAME			
DIAMOND SHAMROCK CORPORATION		R TELEPHONE NO NCY TELEPHONE NO	Contact Local Sales Offi 216/357-7070
ADDRESS			
Digisional Technical Ceriler, P.O. Box 191, Pain	esville, Ohio 440	77	
TRADE NAME			
CAUSTIC SODA - Anhydrous			
SYNONYAIS			
SODIUM HYDROXIDE - NaOH			
II HAZARDOUS INGREDIENTS			
MATERIAL OR COMPONENT	••	HAZARD DATA	
SOLIXORDYH MUIDOS	100	PEL" - 2.	0 mg/m¹
			•
			•
*OSHA Permissible Exposure Limit (PEL)			
III PHYSICAL DATA	<u> </u>		
BOILING POINT 760 MM HG	T		
1388°C; 2530°F	MELTING P	OINT	FREEZING POINT 318°C; 604°F
SPECIFIC GRAVITY (H,O:1)	VAPOR PRE	esune l	310 C, 004 F
2.13 4.20°C	VAPOR PRE	42 mm Hg @	1000°C
VAPOR DENSITY (AIR+1)	SOLUBILITY	IN H ₂ O, % BY WT.	
Not applicable	33233.2	Completely so	مر ۱۰
VOLATILES BY VOL	EVAPORATE	ON PATE (D), 11 1 12	
Not volatile		Does not apply	
APPEARANCE AND ODOR			
Clear - no odor			
H 0.01 moles/liter			
has pH 12	 		

EC-DO-1

٤	IRE AND EXPLOSION DA	1.5			
	POINT (TEST METHOD)			AUTOIGNITION TEMPERAT	URE
	None		Nonflammable .		
Λ.	MARLE LIMITS IN AIR, & BY VO	L	Low	FR	
			1	Nonflammable	UI'PER
4. T. 1 P.	GUISHING MEDIA		L		Nonflammable
	Use carbon dioxide, "alcoho	ol" foam or dry chemicals i	in areas w	vhere caustic soda is store	ed. Caustic soda is nonflammable.
11 3	AL FIRE FIGHTING PROCEDUR				
	Pressure-demand, self-contactions and contactions are self-contactions.	tined respiratory protection fic soda is nonflammable.	n and prot	ective clothing should be v	vorn by lirelighters in areas where
198	LIAL FIRE AND EXPLOSION HAZ	ARD			-
	None				
HE.	ALTH HAZARD INFORMA	TION	·		
	······································				
		FEE 2.0 mg/m* Acui	ite LC ₅₀ >	0.018 < 0.20 mg L. 140-340 mg kg (oral - rai	
		Acut	te LD ₅₀	1,350 mg/kg (dermai - rai) Phiti
111.					
	Caustic s	oda is a corrosive material.			
	Courte coda is destructive to			pending apon seranty of	etrostocalery traction to condothe extenside
" K II's	ACHT THOM		· · · · · · · · · · · · · · · · · · ·		
	Sire "Skin Contact" above.				
	CONTACT				
	Caustic soda is destructive to blindness	eye tissues on contact. Wi	ill cause s	evere burns that result in	damage to the eyes and even
NGE	NCHTE				
;	Chustic soda can cause severe indistantach if swallowed	burns and complete tissue	perforation	on of mucous membranes o	of the mouth, throat, esophagus,
	OF OVEREXPOSURE				
115	ONIC OVEREXPOSURE	s resulting in frequently de	eep uicera	ation and ultimate scarring	
0 15 001					3
0 15 001 0490 1 3 3	he chronic local effect may c Similarly, inhalation of dust, sp ind an increased susceptibility	to respiratory illness.	_		or of primary irritant dermatitis. e to the respiratory tract tissues
1 18 000* 048Q 1 5 1 1 1 5	he chronic local effect may comilarly, inhalation of dust, spind an increased susceptibility OFIRST AID PROCEDUR Immedia 1. flush eyes with laceye surface shing eyes with	to respiratory illness. Object is to Seek in the amounts of water for at thir 1 minute is essential to	superficia arying deg Medical A I least 15 n achieve m	al destruction of the skin of the skin of the skin of the skin of damage. Itention immediately, ninutes holding eyelids aparts.	or of primary irritant dermatitis. e to the respiratory tract tissues art to ensure flushing of the entire
HAC HAC A A	he chronic local effect may comilarly, inhalation of dust, spind an increased susceptibility "">FIRST AID PROCEDUR Immedia	to respiratory illness. 65: Object is to Seek in the seek in the	superficial arying deg Medical A: Heast 15 n achieve m	al destruction of the skin of the skin of the skin of the skin of damage and the skin of t	or of primary irritant dermatitis. e to the respiratory tract tissues
HAL	In the chronic local effect may comilarly, inhalation of dust, spind an increased susceptibility in FIRST AID PROCEDUR Immediate. It linsh eyes with laceye surface shing eyes with laceye surface shing eyes with laceye surface shing eyes with laceye surface shing eyes with laceye surface shing eyes with laceye surface. In the laceye surface shing eyes with laceyes surface shing eyes with laceyes solution) if available. In cannot be decontaminated. Significantly shingly to respiratory illness. 65: Object is to Seek in research and in a minute is essential to a diskin with plenty of water over contaminated clothing and area to (resh sir. If breath and area to (resh sir. If breath and area to (resh sir. If breath and area to (resh sir. If breath and area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir. If breath area to (resh sir.))	Medical A least 15 n achieve m architoothe	al destruction of the skin of	or of primary irritant dermatitis. e to the respiratory tract tissues art to ensure flushing of the entire ek medical attention immediately.	

VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

Under normal use conditions, anhydrous caustic soda is stable.

INCOMPATIBILITY

When nandling caustic sods, avoid contact with aluminum, leather, wool, tin, zinc, and alloys containing these metals. Do not mix with strong acids without dilution and agitation to prevent violent or explosive reaction.

HAZARDOUS DECOMPOSITION PRODUCTS

None

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

None

VII SPILL OR LEAK PROCEDURES

STEES TO HE TAKEN IF MATERIAL IS RELEASED OF SPILLED

Stop leaks. Contain spill. Remove as much as possible (e.g., shovel up). Neutrafize. Imaining traces of material with dilute acid then flush area with water followed by liberal covering of sodium bicarbonate. Reusa spilled material, if possible, otherwise place in a closed, labled, container and store in a safe place to await proper disposal. Persons performing this work should wear arrequiate personal protective equipment and clothing. Caution: Anhydrous causiic soda may react violently with acids and water.

NEUTHALIZING CHEMICALS

Neutralize with any dilute inorganic acid such as hydrochloric, sulfuric, nitric, phosphoric, and acetic acid.

WASTE DISPOSAL METHOD

Dispuse in accordance with all federal, state and local regulations concerning health and pollution. Dispose via approved chemical waste disposal method, if regulations permit.

VIII INDUSTRIAL HYGIENE CONTROL MEASURES

VENTILATION REQUIREMENTS

Good industrial hygiene practice dictates that the work area should be isolated and contained, and provided with adequate local exhaust ventilation or other controls to maintain the air concentration of caustic soda below 2.0 mg/m² as required by OSHA, Air concentration of carbon monoxide formed by reaction of caustic soda and reducing sugars should not exceed 50 ppm for an eight (8) hour TWA

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY ISPECIFY IN DETAILS

Use NIOSH-approved respirator for dusts and mists. Use air purifying respirator where caustic soda is in contact with reducing sugars

€ A E.

Chemical splash goggles and face shield should be worn when working with or around caustic soda.

GLOVES

Gloves coated with rubber, synthetic elastomers, PVC, or other plastic should be worn when handling caustic soda to minimize skin contact.

OTHER CLOTHING AND EQUIPMENT

Hard hats, salety shoes, and rubber boots-should be worn along with rubber apron when handling caustic soda. Safety showers and eyewash stations should be provided in all areas in which caustic soda is handled

IX SPECIAL PRECAUTIONS

RECAUTIONARY STATEMENTS

DANGERI

Causes Severe Burns to Skin and Eyes

Do NOT get in eyes, on skin, on clothing.

Avoid breathing dust, mist, or spray.

Do NOT take internally.

Use with adequate ventilation and employ respiratory protection when exposed to dust, mist or spray

When handling, wear chemical spiash goggles, face shield, rubber gloves and protective clothing.

Wash thoroughly alter handling.

Avoid contact with strong acids to prevent violent or explosive reactions.

Keep container closed

Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and can cause death. Follow appropriate tank entry procedures (ANSI Z117.1-1977).

First Aid:

In case of contact:

For eyes: Immediately flush with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention immediately.

Skin: Immediately wash with plenty of water. If available, rinse with vinegar or diffue acetic acid (3% so) ition). Remove contaminated clothing and footwear. Wash clothing before reuse and discard footwear which current rie decontaminated. Seek medical attention immediately.

Inhalation: Remove person from contaminated area to fresh air. If breathing has stopped lartificial respiration should be 100 to Oxygen may be administered if readily available. Seek medical attention immediately.

Ingestion: If swallowed, DO NOT induce vomiting. Give large quantities of water if available, give several glauses of milk. IAEVER give anythms by mouth to an unconscious person. Seek medical attention immediately.

Special instructions for dissolving anhydrous caustic soda:

When making solution, always add slowly to liquid surface with constant stirring. Never add the liquid to the caustic soda

Always start with lukewarm liquid (80 ~100 F.) Never start with hot or cold liquid

If caustic soda becomes concentrated in one area, or if added too rapidly, or if added to hot or cold it and carried eminerature energies dan result in DANGEROUS boiling and/or spattering which may cause an immediate VIOLENT ERUPTION

Spill or Leak: Leaks should be stopped. Spills, after containment, should be shoveled up and removed to chemical waste area or removed by surface it flight. Neutralize residue with dilute acid, flush spill area with water followed by oberal covering of sodium bloath shale. Dispose of wash water according to Federal, State and Local regulations.

For Industrial Use Only

OTHER HANDLING AND STORAGE REQUIREMENTS

Caustic soda is classified by D.O.T. as a corrosive material.

Considerable heat is generated when water is added to caustic soda; therefore, when making solutions always add the caustic soda to the water with constant stirring. The water should always be lukewarm (80°-100°F) Never start with hot or cold water. If caustic soda becomes concentrated in one area, or if added too rapidly, or if added to hot or cold water, a rapid temperature increase can result in DANGEROUS BOILING and/or spattering or may cause an immediate VIOLENT ERUPTIC'1. Caustic soda can react violently or explosively with acids and many organic chemicals.

Caustic soda reacts with reducing sugars such as fructose, factose, maltose, galactose, levulose and arabinose to form carbon monoxide. While the potential for worker exposure to carbon monoxide may be small, a potential does exist during cleaning of certain dairy and possibly other industry equipment.

Returnable containers should be shipped in accordance with supplier's recommendations. Return shipments should comply with all lederal, state and DOT regulations. All residual caustic soda should be removed from containers prior to disposal

More information on the hazards and handling of caustic soda appear in Diamond Shamrock Corporation's Caustic Soda Handbook EC-LDC-1c.

DEPARTMENT OF TRANSPORTATION INFORMATION
PROPER SHIPPING NAME: Caustic Soda, Dry
HAZARD CLASS: Corrosive Material

PREPARED BY

Diamond Sharprock Corporation To finical Service Group DATE

Je. . 1 ***





MATERIAL SAFETY DATA SHEET

IDENTIFICATION

NAME

٧ ٢ ٠ ٠

Sodium Cyanide

GRADE

Cyanobrik*; Cyanogran*;

Compounders Grade

SYNONYMS

Cyanide of Sodium; Prussiate of Soda

CAS NAME Sodium Cyanide

I.D. NOS./CODES

NIOSH Registry No. VZ7525000

MANUFACTURER/DISTRIBUTOR

E. I. du Pont de Nemours & Co. (Inc.)

ADDRESS Wilmington, DE 19898

CHEMICAL FAMILY Alkali Metal Cyanide

FORMULA NaCN

CAS REGISTRY NO. 143-33-9

PRODUCT INFORMATION PHONE

(800) 441-9442

MEDICAL EMERGENCY PHONE (800) 441-3637

TRANSPORTATION EMERGENCY PHONE Du Pont Cyanide HOTLINE (For emergencies_only) 357-1546

CHEMTREC (800) 424-9300

PHYSICAL DATA

BOILING POINT, 760 mmHg 1496°C (2725°F)

SPECIFIC GRAVITY 1.6

VAPOR DENSITY Not volatile

ph INFORMATION 11.3 to 11.7 (Typical for 5 to 25% solutions with no pH adjustment)

FORM Solid

COLOR White

MELTING POINT .564°C (1047°F)

VAPOR PRESSURE Negligible

SOLUBILITY IN H20 37% at 20°C (68°F)

EVAPORATION RATE (BUTYL ACETATE=1) Not applicable

APPEARANCE Granular or Briquettes

ODOR None (but can have slight ammonia and/or HCN odor if damp)

*Reg. U.S. Pat. & Tm Off., Du Pont Company. Cyanobrik⊕ and Cyanogran⊕ Sodium Cyanide are made only by Du Pont.

E-79954

Date: 10/85

HAZARDOUS COMPONENTS

MATERIAL(S)
Sodium Cyanide

APPROXIMATE %

100

HAZARDOUS REACTIVITY

INSTABILITY

Very stable when dry.

INCOMPATIBILITY

Large amounts of highly toxic, flammable hydrogen cyanide (HCN) gas will be evolved from contact with acids. Reacts violently with strong oxidizing agents. Water or weak alkaline solution can produce dangerous amounts of HCN in confined areas.

DECOMPOSITION

Moisture will cause slow decomposition, releasing poisonous HCN and ammonia gas.

POLYMERIZATION

Will not occur.

FIRE AND EXPLOSION DATA

FLASH POINT Will not burn.

FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER Not applicable. UPPER Not applicable.

AUTOIGNITION TEMPERATURE Not applicable.

FIRE AND EXPLOSION HAZARDS

Will not burn. Sodium cyanide will not be destroyed in an ordinary fire involving combustible materials such as paper or wood.

EXTINGUISHING MEDIA

Water on fires near sodium cyanide, but minimize amount of water if containers are opened or burned (see "Incompatibility", above) <u>DO NOT</u> use carbon dioxide (CO₂) which reacts with sodium cyanide to produce hydrogen cyanide if moisture is present.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Sodium cyanide dissolves readily in water, therefore cyanide solution runoff may occur if containers are opened or burned. Runoff should be contained to avoid environmental or safety problems. Contained cyanide solution can be detoxified with hypochlorite.

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HEALTH HAZARD INFORMATION

PRINCIPAL HEALTH HAZARDS (Including Significant Routes, Effects, Symptoms of Over-Exposure, and Medical Conditions Aggravated by Exposure)

May be fatal if inhaled, swallowed, or absorbed through skin. Contact with acids or weak alkalis liberates poisonous gas. Causes eye burns and may irritate skin.

Oral LD50: 6 mg/kg in rats

Toxic effects described in animals from exposure include asphyxia, dyspnea, ataxia, tremors, coma, and lethality by disrupting oxidative metabolism. Tests in bacterial and mammalian cell cultures demonstrate no mutagenic activity. Tests in some animals indicate that the compound may affect the fetus, that is, it may be a developmental toxin.

Human health effects of overexposure may initially include: skin irritation with discomfort or rash, eye irritation or burns with discomfort, tearing, or blurring of vision, and possible permanent eye damage; and nonspecific discomfort such as nausea, headache, dizziness, vomiting, and weakness. Higher exposures may lead to these effects: rapid respiration; lowered blood pressure; unconsciousness; convulsions; and fatality. Evidence suggests that significant skin permeation can occur. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures.

CARCINOGENICITY

Not listed as a carcinogen by IARC, NTP, OSHA, ACGIH, or Du Pont.

EXPOSURE LIMITS (PEL (OSHA), TLV (ACGIH), AEL (DU PONT), ETC.)
The OSHA 8-hour Time Weighted Average (TWA) and ACGIH TLV®-TWA are 5 mg/m³,
as CN. Both carry a "skin" notation indicating that cyanide may penetrate
the skin (especially if the skin is broken). Control of vapor, dust, and
mist inhalation alone may not be sufficient to prevent absorption of an
excessive dose.

SAFETY PRECAUTIONS:

Do not breathe dust, mist, or HCN gas. Do not get in eyes. Avoid contact with skin and clothing. Do not carry foodstuffs, beverages, or tobacco where contamination with cyanide is possible. Wash thoroughly after handling. Wash contaminated clothing before reuse.

FIRST AID AND MEDICAL TREATMENT

Actions to be taken in case of cyanide exposure should be planned and practiced before beginning work with cyanides. In most cases, cyanide poisoning causes a deceptively healthy pink to red skin color; however, if a physical injury or lack of oxygen is involved, the skin color may be bluish.

Treatment for cyanide poisoning can be provided in two ways, "First Aid" and "Medical Treatment". Both require immediate action to prevent further harm or death. First aid using amyl nitrite and oxygen is generally given by a layman before medical help arrives. Medical treatment involves

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intravenous injections and must be administered by qualified medical personnel. Even if a doctor or nurse is present, the need for fast treatment dictates using first aid treatment with amyl nitrite and oxygen while medical treatment materials for intravenous injection are being prepared. Experience shows that first aid given promptly is usually the only treatment needed.

Medical treatment is given if the victim does not respond to first aid. It provides a larger quantity of antidote including sodium thiosulfate to chemically destroy cyanide in the body. However, even under optimum conditions, amyl nitrite can be administered faster and should be used even if medical treatment follows. Do not overreact. Fast treatment is needed, but a conscious person usually does not need treatment beyond oxygen. Amyl nitrite and medical treatment kits for cyanide poisoning are available, with doctor's prescription, from pharmacies.

A. First Aid - Directions for Giving Amyl Nitrite Antidote and Oxygen

- Conscious: For inhalation and/or absorption if the victim is alert, oxygen may be all that is needed. But if he is not fully conscious or shows signs of poisoning, follow paragraph A-2 below. For swallowing, see below paragraph C, "First Aid - Swallowing Cyanide".
- Unconscious But Breathing: Break up amyl nitrite ampule in a cloth and hold lightly under the victim's nose for 15 seconds, then take away for 15 seconds. Repeat 5-6 times. If necessary, use a fresh ampule every 3 minutes until the victim regains consciousness (usually 1-4 ampules). Give oxygen to aid recovery. Where more severe poisoning has occurred, consider holding the amyl nitrite under the nose continuously for the first ampule or more.

3. Not Breathing:

- Give artificial respiration, preferably with an oxygen resuscitator. Give amyl nitrite antidote by placing a broken ampule inside the resuscitator face piece, being careful that the ampule does not enter the victim's mouth and cause choking.
- b. If using manual artificial respiration, give amyl nitrite antidote as in paragraph A-2 above except keep the first amyl nitrite ampule under the nose with replacement every 3 minutes.

Amyl Nitrite Notes: 4.

nitrite is highly volatile and flammable; do not smoke or around source of ignition.

b. If treating poison victim in a windy or drafty area, provide something - a rag, shirt, wall, drum, cupped hand, etc. - to prevent the amyl nitrite vapors from being blown away. Keep the ampule upwind from the nose. The objective is to get amyl nitrite into the victim's lungs.

Rescuers should avoid amyl nitrite inhalation so they won't

become dizzy and lose competence.

Lay the victim down for treatment to maintain a good blood supply to the victim's head. Since amyl nitrite dilutes the blood vessels and lowers blood pressure, lying down will help prevent unconsciousness.

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- e. Do not overuse; excessive use might put the victim in shock.

 This has not occurred in practice at Du Pont plants and we are not aware of any death or serious after effects from treatment with amyl nitrite. (See paragraph E, "Medical Treatment".)
- B. First Aid Inhalation of Cyanide Carry the victim to fresh air.

 Lay victim down. Administer amyl nitrite antidote and oxygen (Paragraph A). Check for and remove contaminated clothing. Keep patient quiet and warm. Call a physician.

C. First Aid - Swallowing Cyanide

- 1. Conscious: Immediately give patient one pint of 1% sodium thiosulfate solution (or plain water) by mouth and induce vomiting with finger in throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Call a physician.
- Unconscious: Follow first aid procedure as in paragraphs A-2 and A-3 (and/or medical treatment in paragraph E) and call a physician. If the victim revives, then proceed with paragraph C-1.
- D. First Aid Skin or Eye Contact (Skin Absorption)
 - Eye Contact: Immediately flush eyes with plenty of water, remove contaminated clothing, and keep victim quiet and warm. Call a physician.
 - 2. Skin Contact: Wash skin to remove the cyanide while removing all contaminated clothing, including shoes. Do not delay. Skin absorption can occur from cyanide dust, solutions, or HCN vapor. Absorption is slower than inhalation, usually measured in minutes compared to seconds for inhalation.

Follow First Aid procedures in Paragraph A if treatment is needed, but even severe skin contact usually will not require treatment if 1) no inhalation or swallowing has occurred and 2) the cyanide is promptly washed from the skin and contaminated clothing and shoes are removed. If skin contact is prolonged, HCN poisoning may occur with nausea, unconsciousness, and then death possible if the source of cyanide intake is not removed and treatment provided. Even after washing the skin, the victim should be watched for at least 1 to 2 hours because absorbed cyanide can continue to work into the bloodstream. Wash clothing before reuse and destroy contaminated shoes.

F. Medical Treatment

Medical treatment is normally provided by a physician, but might be provided by a professionally trained "qualified medical person" where a need exists and where state and local laws permit.

While preparing for sodium nitrite and sodium thiosulfate injections, use amyl nitrite and oxygen as outlined in paragraph A. When ready and if the victim is not responding to first aid, first inject the solution

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of sodium nitrite (10 mL of a 3% solution) intravenously at the rate of 2.5 mL/minute, then immediately inject the sodium thiosulfate (50 mL of a 25% solution) at the same rate, taking care to avoid extravasation.

This is a fairly lengthy treatment (24 minutes) since a total of 10 + 50, or 60 mL is injected at a rate of 2.5 mL/minute. Consideration should be given to the size and condition of the victim as treatment is proceeding. The above sodium nitrite injection is about one third of a lethal dose, so care should be taken to avoid excessive use. It is not essential that full quantities be given, just because treatment was started. Injections can be stopped at any point if recovery is evident.

Watch patient continuously for 24-48 hours if cyanide exposure was severe. If there is any return of symptoms during this period, repeat this treatment using one-half the amounts of sodium nitrite and sodium thiosulfate solutions. Caution should be used to avoid overuse of medical treatment chemicals as the prescribed dose is about 1/3 the lethal dose for an average individual.

If signs of excessive methemoglobinemia develop (i.e., blue skin and mucous membranes, vomiting, shock and coma), 1% methylene blue solution should be given intravenously. A total dose of 1 to 2 mg/kg of body weight should be administered over a period of five to ten minutes and should be repeated in one hour if necessary. In addition, oxygen inhalation will be helpful. Transfusion of whole fresh blood may be considered if there has been mechanical injury with external or internal bleeding and simultaneous cyanide exposure.

Du Pont's experience in treating cyanide poison cases is that first aid procedures using amyl nitrite and oxygen were effective and the only treatment needed in most cases. Medical treatment, using intravenous injections, was used in a few cases. Both procedures have been successful.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES

Good general ventilation should be provided to keep dust, mist, and HCN gas below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Recommended Minimum Protection - chemical splash goggles and rubber gloves (butyl or neoprene preferred).

Have available and use as appropriate: face shields; rubber suits, aprons, and boots; disposable toxic dust and mist respirators; self-contained breathing air supply (in case of emergency); HCN detector; first aid and medical treatment supplies*, including oxygen resuscitators.

*See Du Pont Sodium Cyanide Storage and Handling Bulletin for list of supplies.

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DISPOSAL INFORMATION

AQUATIC TOXICITY

The compound is highly toxic (96-hour LC50 = 0.5 - 1 mg/L).

SPILL, LEAK OR RELEASE

Sweep up and shovel into a covered container or plastic bag, pending transfer, to secure the spill. Cover and keep spillage dry. Flush spill area with a dilute solution of sodium or calcium hypochlorite. Comply with Federal, State, and local regulations on reporting releases.

WASTE DISPOSAL

Comply with Federal, State, and local regulations. Do not flush cyanide into sewers which may contain an acid. Detoxify with sodium hypochlorite, or hydrogen peroxide; flush to waste water treatment system; or call a licensed disposal contractor.

SHIPPING INFORMATION

DOT (172.101)

PROPER SHIPPING NAME
Sodium Cyanide, Solid

HAZARD CLASS Poison B

UN NO. 1689

DOT LABEL(S) Poison

IMO (PAGE 6167)

PROPER SHIPPING NAME Sodium Cyanide

HAZARD CLASS 6.1

UN NO. 1689

IMO LABEL(S) Poison

DOT/IMO (172.102)

PROPER SHIPPING NAME Sodium Cyanide

HAZARD CLASS Poison B, 6.1

UN NO. 1689

IATA/ICAO

PROPER SHIPPING NAME Sodium Cyanide

HAZARD CLASS 6.1

UN NO. 1689

LABEL(S) Poison

PACKAGING GROUP NO. I

OTHER INFORMATION

REPORTABLE QUANTITY 10 1b/4.54 kg

SHIPPING CONTAINERS

"Wet Flo" railcars and trucks; hopper railcars; Flo-Bins⊕ (3000 lb. net); 2000 lb. bag in a box; 100 kilo, 100 lb., and 200 lb. steel drums

STORAGE CONDITIONS

Store in properly labeled containers in dry, ventilated, secured areas. Keep containers closed and contents dry. Do not store with acids or acid salts, containers with water or weak alkalis, or oxidizing agents. Do not handle or store food, beverages, or tobacco in cyanide areas. Do not store near combustibles or flammables because of cyanide solution runoff from water used for fire fighting.

ADDITIONAL INFORMATION AND REFERENCES

For further information, see Du Pont Sodium Cyanide Storage and Handling Bulletin.

DATE OF LATEST REVISION/REVIEW: 8/85

PERSON RESPONSIBLE FOR MSDS: J. C. Watts, Du Pont Co., C&P Dept., Chestnut Run,

Wilmington, DE 19898, (302) 999-4946



U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding and Shipbreaking (29 CFR 1915, 1916, 1917)

SEC	TION I
MANUFACTURER'S NAME: Various (Talco as Distributor) ADDRESS: 5201 Unruh Avenue,	EMERGENCY TELEPHONE NUMBER: Chemtrec 800-424-9300
Philadelphia, PA 19135 CHEMICAL NAME AND SYNONYMS: Cadmium CHEMICAL FAMILY: Cadmium	TRADE NAME AND SYNONYMS: Cad Balls FORMULA: Cd
	ZARDOUS INGREDIENTS
PAINTS, PRESERVATIVES % TLV AND SOLVENTS (UNITS)	ALLOYS AND METALLIC % TLV COATINGS (UNITS)
PIGMENTS: NA ATALYST: NA VEHICLE: NA SOLVENTS: NA	BASE METAL: NA ALLOYS: NA METALLIC COATINGS: NA FILLER METAL PLUS COATING OR CORE FLUX: NA
ADDITIVES: NA OTHERS: NA HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS	OTHERS: NA
SECTION III -	- PHYSICAL DATA
BOILING POINT (°C): 766° VAPOR PRESSURE (mm Hg.): NA VAPOR DENSITY (AIR=1): NA SOLUBILITY IN WATER: Insoluble. APPEARANCE AND ODOR: Bluish silver white me	EVAPORATION RATE ()=1: NA
	D EXPOSION HAZARD DATA
	FLAMMABLE LIMITS: NA ved self-contained breathing apparatus. contact with molten metal may cause explosion.

	SECTION V - HEALTH HAZA	ND DATA
kidneys. Cadmium can cause k	mium is transported via idney damage, nausea, voi DURES: Inhalation: Remembersion: Induce vomiting	blood and stored mainly in liver and miting, headache. ove from exposure; place individual in conscious individual and call a
	SECTION VI - REACTIVIT	
STABILITY: INCOMPATABILITY (MATERIALS TO HAZARDOUS DECOMPOSITION PRODUction oxide fumes may be formed.	UNSTABLE: AVOID): Strong acids as CTS: At temperatures abo	STABLE: X nd alkalis. ove the melting point, 321 ⁰ C, cadmiu
HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID: NA		WILL NOT OCCUR: X
SEC	TION VII - SPILL OR LEAK	PROCEDURES
he nicked up by hand and retu	rned to original contain	LLED: If Cadmium is spilled, it can er. Gloves should be used. sed in accordance with OSHA and EPA
SECTION	VIII - SPECIAL PROTECTION	ON INFORMATION
RESPIRATORY PROTECTION (SPECI	FY TYPE): Approved resp	irator for dust or fumes.
VENTILATION: The area surrouprevent gases, mists, and parto injurious levels.	nding any plating tank sh ticulate matter evolved b	nould be suitably ventilated to from the plating tank from collecting
PROTECTIVE GLOVES: Required	for hot metal. EYE PI	ROTECTION: Required for dust or heat.
OTHER PROTECTIVE EQUIPMENT:		
	SECTION IX - SPECIAL PREC	
	SECTION IN - SEECTAR LYRC	

THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDER INVESTIGATION.
TALCO COMPANY PROVIDES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN.



Rho-Chem Corporation 425 Isis Avenue Inglewood, CA 90301





MCTERIAL SAFETY DATA SHEET

Essentially similar to OSHA Form 20

					REV.	082279		
		SECTIO	N I. PRODU	CT IDENTIFICATION	ON 2404 R	<u>econstitute</u>	d	
PRODUCT NAME	1,1,1 Trichloroethane		STOCK NO.	2354 E	2004 Technical Grade			
CHEMICAL NAME AND SYNONYMS	Methyl Chloroform			FORMULA .		CH ₃ CCl ₃		
CHEMICAL FAMILY	Chlorinated hydrocarbon		EMERGENCY PHONE NO.	(213) 77	(213) 776-6233			
NATIONAL FIRE PROTECTION ASSOCIATION HAZARD IDENTIFICATION	PHOTOCHEMICAL F		AGEMENT DISTRICT REACTIVITY sically reactive than 4%)	DEPARTMENT OF TRANSPORTATION HAZARD CLASS ORM-A		TATION		
		SECTIO	NII. HAZA	RDOUS INGREDIE	NTS			
MATERIAL		TLV (UNIT	S) %	MATERIA	AL	TLV (UNITS)	*	
1,1,1 Trichloro	ethane	350	100					
		SEC	CTION III. P	HYSICAL DATA				
BOILING POINT ONE atm.	165°F		FREEZING POINT	-34.401	-34.4°F			
SPECIFIC GRAVITY	1.312 @ 25/25°C.		VAPOR PRESSURE AT 20°C		104.5 mm Hg			
VAPOR DENSITY (AIR = 1)	4.55		SOLUBILITY IN WATER % BY WT. AT 20°C	0.07	0.07			
PERCENT VOLATILES BY VOLUME	100%		EVAPORATION RATE	100 (100 (CC1 ₄ =100)			
APPEARANCE	Colorless liquid		ODOR	Somewh	Somewhat ethereal			
	SECTI	ON IV.	FIRE AND E	XPLOSION HAZAR	D DATA	,		
FLASH POINT (TEST METHOD)	None (T.O.C.)		FLAMMABLE LIMITS	Upper No	Upper Non flammable			
AUTOIGNITION TEMPERATURE	No available data		(% BY VOLUME)	Non flammable				
EXTINGUISHING MEDIA	Its pre	sence in ishing m	a fire doe edia.	s not hinder the	e use of an	y standard		
SPECIAL FIREFIGHTING PROCEDURES	Wear sel	lf conta knock	ined breath down vapors	ing apparatus ap and to cool con	proved by tainers.	NIOSH. Use	water	
UNUSUAL FIRE AND EXPLOSION HAZARDS	arcs, ar	id open	electric he	peratures that o aters decompose ting vapors.	ccur in ope to give of	en flames, w E hydrogen o	velding hloride	

	SECTION	ON V. HE.	ALTH HAZARD PATA		
THRESHOLD LIMIT	350ppm		NUM CONCENTRATION LEVEL 80	Oppm/5 minutes in 2 hours	
SEFECTS OF SER EXPOSURE	Eyes - can cause severe irritation, redness, tearing, blurred vision. Skin - prolonged or repeated contact can cause moderate irritation, defatti dermatitis. Breathing - excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, pos unconsciousness, and even asphyxiation. Swallowing - can cause gastrointest irritation, nausea, vomiting, diarrhea.				
EMERGENCY AND FIRST AID PROCEDURES	with soap and water. Breathing - if affect administer oxygen. I not give stimulants.	Remove content of the	ontaminated clothing to fresh air. If in a ng has stopped, give ine or ephedine may	thoroughly wash exposed arg and launder before re-use breathing is difficult, artificial respiration. Department of the lattice of the lattic	
	SECT	rion VI.	REACTIVITY DATA		
STABILITY	Unstable	X Stable	Hezardous Polymerization	May Occur X Will Not Occur	
	SECTION	VII. SPILI	OR LEAK PROCEDUR	ES	
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Absorb liquid on rags, mops, or floor absorbent and place in closed containers. Provide adequate ventilation and wear adequate personal protective equipment.				
WASTE DISPOSAL 'ETHOD	Depending on size of spill, absorbent materials used may be dried in a safe place out of doors, or deposited in a posted toxic substance landfill in accordance with local regulations.				
	SECTION VIII.	SPECIAL I	PROTECTION INFORM	ATION	
RESPIRATORY PROTECTION	None for normal use. NIOSH/MESA approved self-contained breathing apparatus, positive pressure hose masks, air-line mask for spills or extreme conditions				
VENTILATION	Provide sufficient mechanical and/or local exhaust ventilation to maintain exposure below threshold limit value.				
PROTECTIVE GLOVES	Polyvinyl alcohol,	EYE PROTE Chemic	ction cal safety goggles	OTHER PROTECTIVE EQUIPMENT Rubber apron	
	SECTIO	N IX. SPI	ECIAL PRECAUTIONS		
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	continue to be hazard liquid. Storage tanks equalization. Vents if contact with strong of	dous becaus should be from indocoxidizing	use they retain prod be adequately vented or tanks should term agents (nitric acid	closed. Empty containers uct residues; vapor or for filling and pressure inste outdoors. Avoid, permanganates, etc.), xide, etc.) and alkali meta	
OTHER PRECAUTIONS	SOLVENT. A violent er poured into hot oil o occur. Add cold solve RECOMMENDED CLEAN-OUT	ruption ma or grease. ent in the TEMPERAT	y occur similar to Severe body and fac morning before degr URE or recommended	OUR COLD SOLVENT INTO BOILI the reaction of cold water cial burns and/or fire may reaser start-up. DO NOT EXC clean-out specific gravity. lble contaminants may occur	

MATERIAL SAFETY DATA SHEET

SHO-CHEM CORF. 425 IBIS AVE. INGLEWOOD. CA 90301 (213)774-6233

RHO SOLV 1213 EFFECTIVE 8-12-84 PAGE 1

SHO SOLV 1213 PETROLEUM NAPHTHA

SECTION 1 IDENTIFICATION

FRODUCT: RHO BOLV 1213 CHEMICAL FAMILY: HYDROCARBON NAPHTHA

SYMONYM: PETROLEUM NAPHTHA

ETOCK NUMBERS:

TECHNICAL GRADE: 1215

RECONSTITUTED GRADE: N/A

ELECTRONIC/SEMI GRADE: N/A

A.C.S. REAGENT GRADE: M/A

DEPARTMENT OF TRANSPORTATION (DOT) IDENTIFICATION

DOT PROPER SHIPPING NAME: PETROLEUM NAPHTHA

DOT HAIARD GLASS: FLAMMABLE LIQUID

DOT IDENTIFICATION NUMBER: UN-1255

HAZARDOUS WASTE IDENTIFICATION

WASTE NUMBER: US EFA DOD1

CALIFORNIA: 213

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT: THIS CHEMICAL IS NOT PHOTOCHEMICALLY REACTIVE

	PRODUCT/COMPOSITION DATA		
COMPONENT #	COMPONENT	CAS NUMBER	PERCENT
AHO 80LV 1213		54742-69-9	100
1 PARAFFINS AND 2 XYLEME 3 ETHYLBENZEME 4 OLEFINS:	NAPHTHENES	NOT APPL. 1530-20-7 100-41-4 NOT APPL.	91 7 2 <0.1
SECTION T	218YH9	AL DATA	
BOILING FOINT OR RANGE (DEG. F)	SPECIFIC SRAVITY (25/25C)	SOLUBILITY IN WATER 9250 (WT %)	
246-270	0.73	WEGFIGIBFE	·

2 . 14

RHO BOLV 1217 PAGE 2

VAFOF FREBBURE (mm Hg)	YAPOR BENBITY IN AIR (AIR=1)	% VOLATILE BY VOLUME	EVAPORATION R n-BUTYL ACETAT	ATE E = 1	
24 & 100F	5.a	100	1.2		
	: CLEAR COLORLESS : ROCARBON CDOR	_i@UID			
SECTION 4A	HEALTH	INFORMATION-HEAL	TH RATING		
HAIAFDOUS M	ATERIALS IDENTIFICA	TION SYSTEMS (HM	IS)		
HEALTH (D)	FIRE (I)				
REACTIVITY	(0)	FERSONAL	FROTECTION (C) 9	AFETY GLASSES LOVES / AFFC:	
EECTION 48	HEALTH INFO	RMATION-ACUTE TS	XISITY DATA		
COMPONENT #	ACUTE GRAL LD50	ACUTE DERMAL L	DEO ACUTE INHAL	ATION LC30	
2	RAT: >4 ML/KG RAT: 4.3 G/KG		/KG RAT: 3400 /KG RAT: 5700		
SECTION 40	HEALTH INFOR	MATION-GCCUPATIS	NAL EXPOSURE LIMI	TS	
COMPONENT	(OSHA) PEL/TWA PEL	CEILING TLV/	(ACGIH) TWA TLV/STEL		
1 2	NONE ESTABLISHED		PPM 400 PPM PFM 130 PPM		
EESTION 48	HEALTH IMFO	RMATION - EFFECT	S OF EXPOSURE		
EFFECTS DES	CRISED IN THIS SECT	ION ARE BELIEVED	NOT TO OCCUR IF	EXPOSURES	

TO THE PRODUCT ARE MAINTAINED AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 40. PREEXISTING SKIN, EYE, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE.

POTENTIAL ROUTE OF ENTRY INHALATION _X_

SHIN ___

INGESTION ___

INHALATION:

VAPORS MAY BE IRRITATING TO MOSE, THROAT, AND RESPIRATORY TRACT. HIGH MARCH CONCENTRATIONS MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

SKIN:

LICUID IS IRRITATING TO THE SKIN. PROLONGED OF REPEATED CONTACT MAY CAUSE SKIN TO BECOME REDDENED. ROUGH, AND DRY DUE TO THE REMOVAL OF NATURAL CIUS, AND MAY RESULT IN DERMATITIE.

EYEE:

LIQUID IS MILDLY IRRITATING TO THE EYES.

INCESTION:

SWALLEWING PRODUCT MAY REBULT IN GASTROINTESTIMAL IRRITATION. MAUSEA, VOMITING. DIARRHEA.

ASFIRATION (BREATHING) OF VOMITUE INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES MAY RESULT IN ASPIRATION PNEUMONITUS AND SYSTEMIC EFFECTS.

SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE:

INTENTIONAL ABUSE, MISUSE, OR OTHER MASSIVE EXPOSURE MAY RESULT IN DIFFICULT BREATHING, NAUSEA, VOMITING AND HEADACHE. COMA AND OR DEATH ARE POSSIBLE.

CENTRAL NERVOUS SYSTEM DEPRESSION RANGES FROM LIGHT HEADEDNESS TO UNCONSCIOUSNESS AND DEATH. ONS DEPRESSION IS EVIDENCED BY BIDDINESS. DITTINESS AND NAUSEA.

ASPIBATION PNEUMONITUS MAY BE EVIDENCED BY COUGHING, LABORED BREATHING AND CYANGSIS (BLUISH SKIN). IN SEVERE CASES DEATH MAY OCCUR.

SECTION 4E SUPPLEMENTAL HEALTH INFORMATION

IS THE PRODUCTOR A COMPONENT OF THE PRODUCT LISTED AS A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) OR IS IT THE SUBJECT OF A HAZARD EVALUATION SYSTEM AND INFORMATION SERVICE (HESIS) HAZARD ALERT?

COMPONENT	NTP	OSHA	IARO	HESIS
NUMBER	CARCINOGEN	CARCINOGEN	CARCINOGEN	HAIARD ALERT
i	NO	NO	MC	NO
2	NO	NO	MC	NO

COMPONENT INFORMATION

PARAFFINS AND NAPHTHENES

-MALE HATE EXPOSED FOR 70 DAYS BY INHALATION TO VAFORS OF SIMILAR SOLVENTS BHOWED EVIDENCE OF KIDNEY DAMAGE. THE RELEVANCE OF THIS EFFECT TO MAN IS UNWINOWN. IN ONE OF THE STUDIES A LOW GRADE ANEMIA WAS ALSO OBSERVED.

KYLENE

LABORATORY ANIMALS EXPOSED BY VARIOUS ROUTES TO HIGH DOSES OF XYLENE SHOWED EVIDENCE OF EFFECTS IN THE LIVER, KIDNEYS, LUNGS, SPLEEN, HEART AND CORENALS PATS EXPOSED TO KYLENE VAROR DURING PREGNANCY SHOWED EMBRYOUFFTOTOXIC EFFECTS. MICE EXPOSED GRALLY TO DOSES PRODUCING MATERNAL TOXICITY ALSO SHOWED EMBRYOUFFTOTOXIC EFFECTS.

SECTION S EMPLOYEE PROTECTION

VENTILATION:

MAINTAIN WORKPLACE VAPOR SENCENTRATIONS AT OR BELOW THE SCOUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 40.

FROTECTIVE MEASURES FOR MAINTENANCE:

EXERCISE PERSONABLE DARE AND CAUTION. AVOID BREATHING VAPORS. STORE IN A COOL PLACE. CONCENTRATED VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS. DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE. DO NOT PRESSURE PRODUCT OUT OF VESSEL OR TRANSPORT CONTAINER WITH AIR.

RESPIRATORY PROTECTION:

AVOID PROLONGED OF REFEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES ENGIED OCCUPATIONAL EXPOSURE LIMITS (SECTION AC) USE A MIDSH-APPROVED PERFERATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH QF OFR 1910.104 USE SITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR-PURIFYING RESPIRATOR FOR ORGANIO VAPORS.

ERIN PROTECTION:

FOR BRIEF CONTACT, NO FRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLITHING SHOULD BE NEEDED. WHEN FROLONGED OR FREQUENTLY REFEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. BELECTION OF BREDIFIC ITEMS SUCH AS GLOVES, BOOTS, APROM OR FULL-BODY BUIT WILL DEPEND ON OPERATION.

EVE FROTECTION:

USE BAFETY GLABSES. WHERE CONTACT WITH LIQUID IS LIKELY, CHEMICAL SOBGLES ARE RECOMMENDED BECAUSE EYE CONTACT WITH THIS MATERIAL MAY CAUSE PAIN. EYEN THOUGH IT IS UNLIKELY TO CAUSE INJURY. CONTACT LENSES SHOULD NOT BE WORN.

HYGIEME:

AVEID CONTACT WITH EMIN AND AVOID BREATHING MAPORS. DO NOT EAT, BRINK OR EMOKE IN WORK AREA. WASH HANDS PRIOR TO EATING, DRINKING, OR USING RESTACOM.

BESTIEN &

EMERGENCY AND FIRST AID

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION COCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.

INHALATION:

REMOVE VICTIM ID FRESH AIR AND FROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIENT RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION:

TO NOT INDUCE VOMITING. IF VOMITING OCCURS EFONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. SET MEDICAL ATTENTION. SEE NOTE TO PHYSICIAN.

MOTE TO PHYSICIAM:

EXCAUSE RAPID ASSCRPTION MAY OCCUR THROUGH LUNGS IF ASPIRATED AND CAUSE EYSTEMIC EFFECTS. THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY AN ATTENDING PHYSICIAN. IF LAVAGE IS PERFORMED, SUGGEST EMECTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. IF BUFN IS PRESENT, TREAT AS ANY THERMAL BURN, AFTER DECONTAMINATION. EXPOSURE MAY INCREASE "MYOCARDIAL IRRITABILITY". DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY. NO SPECIFIC ANTIDOTE. SUFFCRIVE CARETREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

SECTION 7 FIRE AND EXPLOSION HAZARDS

- SEL.LUB . FIRE HND EXPEDSION RAZARDS

FLASH FOINT SE F (TOS)

FLAMMOBLE LIMITE: VOLUME IN AIR UPPER LIMITS: 7.0% LONER LIMITE: 1.0%

EXTINGUISHING MEDIA:

USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIGXIDE. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNFROTESTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER SEAR (HELMET WITH T FACE BRITLD. BUNKER COATS, GLOVES AND RUBBER SCOTE) INCLUDING A FOSITIVE PRESSURE NICH AFFROVED SELF-CONTAINED BREATHING AFFARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATTE TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER PURTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

VARORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY SE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKE, HEATIFS, EMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION EQUIPORS AT LOCATIONS DISTANT FROM MATERIAL HANDLING FOINT.

MEVER USE WELDING OR CUTTING TORCH ON OR MEAR DRUM (EVEN EMFTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

BESTION B

REACTIVITY

STABILITY: THIS PRODUCT IS STABLE

HAIARDOUS POLYMERIZATION: WILL NOT OCCUR

COMPITIONS AND MATERIALS TO AVOID:

AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED DXYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

HAINFOOUS DECOMPOSITION PRODUCTS:

CARBEN MONOXIDE AND UNIDENTIFIED CROAMIC COMPOUNDS MAY BE FORMED BURING ICMBUSTION.

SESTION 9

SPILL AND DISPOSAL PRACTICES

SPILL:

EVACUATE THE AREA, VENTILATE, AND AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. CLEAN UP AREA (WEAR PROTECTIVE EQUIPMENT) BY MOPPING OR WITH ABSORDENT MATERIAL AND FLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTAMINATION OF GROUND AND SURFACE WATERS. TO NOT FLUSH TO SEWER.

WASTE DISPOSAL:

RECOVERED LIQUIDS MAY SE SENT TO A LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST SE DISFORED OF IN A PERMITTED HALARDOUS WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE OR LOCAL DISFOSAL AUTHORITIES FOR APPROVED PROCEDURES.

BEETIGN 10

SPECIAL PRECAUTIONS

KEEF LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHT, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE SONE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE: FLASH-FIRE CAN RESULT. KEEF CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.

RHO SOLV 1213 PAGE E

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED. CAN CONTAIN EXPLOSIVE VAPORS. SO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS.

STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

HANDLING AND STORAGE:

HANDLE WITH REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE.

STORE DRUMS IN A COOL PLACE, BUNG UP AND TIGHTLY CLOSED. STORAGE TANKS SHOULD BE ADEQUATELY VENTED FOR FILLING AND PRESSURE EQUALIZATION. VENTS FROM IMPOUR TANKS SHOULD TERMINATE OUTDOORS.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS CRIMPLIED IS MADE. SINCE THE ACTUAL USE OF THIS PRODUCT BY OTHERS IS BEYOND THE CONTROL OF RHO-CHEM CORPORATION, IT IS THE USER'S RESPONSIBLITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS USE OF THIS PRODUCT.

Material Safety

GENERAL INFORMATION

Methylene Chloride is a clear, coloriess nonflammable liquid with a sweet odor perceptible at concentrations below 250



Reactivity

ŝ

Hazardous

Occupationally

System for

"Identification

NIOSH

5

based

Slightly Combustible

METHYLENE CHLORIDE

Diamond Shamrock

100

Clear colorless liquid with

ether-like odor

Not applicable

APPEARANCE AND ODOR

349-A

Data Sheet

I PRODUCT IDENTIFICATION (1974)MANUFACTURER'S NAME REGULAR TELEPHONE NO. Contact Local Sales Office EMERGENCY TELEPHONE NO. 216-357-7070 DIAMOND SHAMROCK CORPORATION Materials" ADDRESS Divisional Technical Center, P. O. Box 191, Painesville, Ohio 44077 TRADE NAME METHYLENE CHLORIDE SYNONYMS Dichioromethane (CH2Cl2) II HAZARDOUS INGREDIENTS MATERIAL OR COMPONENT HAZARO DATA METHYLENE CHLORIDE 100 PEL* = 500 ppm (8-hr. TWA) *OSHA Permissible Exposure Limit (PEL) III PHYSICAL DATA BOILING POINT, 760 MM HG **MELTING POINT** FREEZING POINT 39.8°C (104°F) Not applicable -96.7°C (-142°F) SPECIFIC GRAVITY (H2O=1) VAPOR PRESSURE 1.32 420 mm Hg @ 25°C VAPOR DENSITY (AIR=1) SOLUBILITY IN H2O, % BY WT. 2.93 % VOLATILES BY VOL. EVAPORATION RATE (Ether = 1)

Moderate Health Hazard

EC-S-59

All information recommendations and suggestions appearing herein concerning our product are based upon tests and date believed to be reliable, however, it is the use responsibility to inferenine the safety, fox city, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control no guarant expressed or implied is made by Diamond Shamrock Corporation as to the effects of such use, the results to height sined or the safety and toxicity of the product nor does Diamond Corporation assume they liability arising out of use, by others of the product referred to herein. Nor is the information herein to be construed as absolutely comprising in the product referred to herein. since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or deverning

Data Sheet

IV FIRE	AND EXPLOSION DATA		
FLASH P	OINT (TEST METHOD)	AUTOIGNITION TEMPE	RATURE
r	None (TCC).	662°C (122	
EL AMMA	BLE LIMITS IN AIR % BY VOL		
CAMMA	@ 25°C (77°F)	LOWER 14	UPPER
EXTINGU	ISHING MEDIA		25
F	Fires involving methylene chloride are unlikely, but sh water fog.	ould one occur, it may be control	led by carbon dioxide, dry chemicals, or
	FIRE FIGHTING PROCEDURES		
• • • • • • • • • • • • • • • • • • • •	lelf-contained respiratory protection should be provinethylene chloride is stored. Storage containers experessure buildup.	ided for firemen fighting fires in osed to fire should be kept cool	buildings or confined areas where with a water spray, in order to prevent
	FIRE AND EXPLOSION HAZARD		
	tethylene chloride is nonflammable and nonexplos hloride decomposes to give off hydrochloric acid as ontainers are exposed to excessive heat, overpressu		
V HEAL	TH HAZARD INFORMATION		
HEALTH H	HAZARD DATA PEL = 500 ppm (8-hour TWA)		
ROUTES	OF EXPOSURE		
INHAL	ATION		
· Ir	ritates respiratory tract.		•
	ONTACT		
M be	ildly irritating to skin. Skin contact may produce a become red, rough and dry due to the removal of natu	purning sensation. Prolonged or ural oils and may result in derma	repeated contact may cause skin to stills.
	BSORPTION		
···	ethylene Chloride is rapidly absorbed through the s	kin.	
EYE CO	ONTACT		
A	n Irritant of the eyes causing pain, lacrimation, and o	general inflammation.	•
INGEST			
In ch	industrial environments, ingestion is unlikely, but, if lemical pneumonia if vomiting results in aspiration into	f ingested, it can irritate the gast o the lungs. It may ultimately resu	ointestinal tract. It could produce
EFFECTS C	OF OVEREXPOSURE		
ACUTE	OVEREXPOSURE Inhalation of vapors can overexposure may cause	cause headache, dizziness and a muscular incoordination, uncor	stupor, nausea, and vomiting. Severa.
	IC OVEREXPOSURE		
Ca an	in cause headache, mental confusion, depression, fat d visual disturbances. Prolonged or repeated skin c	igue, loss of appetite, nausea, vor ontact may cause dermatitis.	niting, cough, loss of sense of balance,
MERGENC EYES:	Y AND FIRST AID PROCEDURES Object is to See	k Medical Attention immediately	· · · · · · · · · · · · · · · · · · ·
E1E3.	Immediately flush eyes with large amounts of water surface. Seek medical attention immediately.	r for at least 15 minutes, holding l	ids apart to ensure flushing of the entire eye
SKIN:	Wash contaminated area with soap and water. A scontaminated clothing and footwear and wash cloth medical attention.	soothing ointment may be applie hing before reuse. Discard footw	ed to irritated skin after cleansing. Remove ear which cannot be decontaminated. Seek
INHALA	- ·		
	Get person out of contaminated area to fresh air, if b administered, if readily available. Seek medical at	preathing has stopped artificial re- tention immediately.	spiration should be started. Oxygen may be
INGESTI	ON: If swallowed, DO NOT induce vomiting. If vomiting of give anything by mouth to an unconscious person	occurs spontaneously, position in n. Seek medical attention immed	,t ndividual's head to keep airway clear. Never liately.
OTES TO F	PHYSICIAN		

Methylene chloride overexposure can produce elevated carboxyhemoglobin levels.



VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

Under normal conditions of use, Methylene Chloride is stable.

INCOMPATIBILITY

Avoid contacting Methylene Chloride with pure oxygen, alkall metals, open flames, and electrical arcs.

HAZARDOUS DECOMPOSITION PRODUCTS

At high temperatures, Methylene Chloride decomposes to give off hydrogen chloride vapor and small quantities of other toxic and irritating vapors such as phosgene.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

NONE

VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Leaks should be stopped. Spills should be cleaned up immediately. Large spills should be contained and removed by vacuum truck. Smaller spills may be soaked up with absorbent materials, which should be placed in closed containers, labeled and stored in a safe place out of doors to await proper disposal. Persons performing this work should wear adequate personal protective equipment and clothing.

NEUTRALIZING CHEMICALS

NONE

WASTE DISPOSAL METHOD

Dispose in accordance with all federal, state and local health pollution regulations. Methylene Chloride is normally recovered from residues by distillation. Small quantities may be disposed via an incineration-scrubber system or a licensed waste hauler. If regulations permit, wet absorbent materials may be air dried in a safe open, unoccupied area.

VIII INDUSTRIAL HYGIENE CONTROL MEASURES

VENTILATION REQUIREMENTS

Work areas employing Methylene Chloride should be isolated and contained, and provided with adequate local exhausts ventilation to maintain the air concentration of Methylene Chloride below 500 ppm (8-hour TWA) as required by OSHA.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY (SPECIFY IN DETAIL)

Self-contained breathing apparatus (compressed oxygen should not be used in tanks or other confined spaces), positivepressure hose mask, air-lined masks, and NIOSH-approved industrial canister-type gas masks (concentration not exceeding 2% by volume used for short periods of exposure only) are acceptable.

EYE

Chemical safety goggles and plastic face shield should be worn when there is a danger of splashing. Spectacle-type glasses do not provide satisfactory protection.

GLOVES

Gloves of polyvinyl alcohol or other solvent-resistant materials should be worn to minimize skin contact.

OTHER CLOTHING AND EQUIPMENT

Hard hats, chemical-resistant safety shoes, and plastic apron should be worn when handling Methylene Chloride. Eye bath and safety shower should be provided in all areas in which Methylene Chloride is used and/or handled.

Data Sheet

IX SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

WARNINGI VOLATILE SOLVENT

Causes irritation of the eyes, skin, and respiratory tract.
Prolonged breathing of vapor can cause loss of consciousness and may result in death.
DO NOT get in eyes, on skin, on clothing.
DO NOT take internally.
Avoid breathing vapors.
When handling, wear chemical splash goggles, protective clothing, and solvent-resistant gloves.
Wash thoroughly after handling
Use adequate ventilation in work area.
Employ respiratory protection when overexposed to vapors.
Avoid contact with flame or hot glowing surfaces to prevent decomposition resulting in toxic and irritating vapors.
Keep container tightly closed.
Store in a cool, ventilated place

First Ald:

In case of contact:

For eyes: Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention immediately.

For skin: Wash with plenty of soap and water. A soothing ointment may by applied to irritated skin after cleansing. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear which cannot be decontaminated, Seek medical attention.

inhalation: Get person out of contaminated area to fresh air. If breathing has stopped artificial respiration should be started. Oxygen may be administered, if available. Seek medical attention immediately.

Ingestion: If swallowed, DO NOT induce vomiting. If vomiting occurs spontaneously, position individual's head to keep airway clear. NEVER give anything by mouth to an unconscious person, Seek medical attention immediately.

Note to physician: Methylene Chloride overexposure can produce elevated carboxyhemoglobin levels.

For Fire: Use CO2, dry chemicals, or water fog.

Spill or Leak: Leaks should be stopped. Spills should be cleaned up immediately. Large spills should be contained and removed by vacuum truck. Smaller spills may be soaked up with absorbent materials, which should be placed in closed containers, labeled, and stored in a safe place out of doors to awalt proper disposal. Persons performing this work should wear adequate personal protective equipment and clothing.

For Industrial Use Only

OTHER HANDLING AND STORAGE REQUIREMENTS

Under normal conditions. Methylene Chloride may be stored satisfactorily In galvanized Iron, black iron or steel. Aluminum is not generally recommended for storage or handling. Store drums in a cool place, bung up and closed tightly. Ventilation should be provided at the floor level. Do not store in plts, depressions, basements or unventilated areas. All tanks should have a top and bottom manhole and a vent of a diameter at least equal to that of the fill or discharge pipe. Vent indoor tanks outside in a location such that escaping vapor will not contaminate any work space air. Vertical tanks should be of the closed top design. Normally, a dryer and safety seal on the vent is recommended.

DEPARTMENT OF TRANSPORTATION INFORMATION PROPER SHIPPING NAME: Methylene Chloride* HAZARD CLASS: ORM-A*

*Regulated Only for Air Transportation

PRODUCT NAME: AEROSHELL(R) /

INGESTION

LUBRICATING DILS ARE GENERALLY CONSIDERED NO MORE THAN SLIGHTLY TOXIC IF SWALLOWED

SIGNS AND SYMPTOMS IRRITATION AS NOTEO ABOVE

AGGRAVATED MEDICAL CONDITIONS PREEXISTING SKIN AND RESPIRATORY DISCRDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT

OCCUPATIONAL EXPOSURE LIMITS SECTION IV OTHER ACGIH OSHA TLV/STEL TLV/TWA PEL/CEILING NO. PEL/TWA

NONE 10 MG/M3* 5 MG/M3* 5 MG/M3* BNCN

PÉDMISSIBLE EXPOSURE LIMIT

8 HR OCCUPATIONAL EXPOSURE WORKING LIFE TIME

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN GET MEDICAL ATTENTION.

SKIN CONTACT WASH WITH SOAP AND WATER OR A WATERLESS HAND REMOVE CONTAMINATED CLOTHING AND WIPE EXCESS OFF. WASH WITH SOAP AND WATER OR A VICLEARER FOLLOWED BY SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION

GET_MEDICAL ATTENTION. REMOVE VICTIM TO FRESH AIR AND PROVIDE DXYGEN IF BREATHING IS DIFFICULT.

OD NOT INDUCE VOMITING. IN GENERAL NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ADVICE.

NOTE TO PHYSICIAN IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH VISCOSITY, LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND GREASES.

SUPPLEMENTAL HEALTH INFORMATION SECTION VI

NONE IDENTIFIED.

PHYSICAL DATA SECTION VII ------

SPECIFIC GRAVITY: 0.8718 BOILING POINT: NOT AVAILABLE (H20=1)

(OEG F)

SOLUBILITY: MELTING POINT: -75 (POUR POINT)

(IN WATER) LITTLE ENPORTANCE

NEGLIGIBLE

EVAPORATION RATE (N-BUTYL ACETATE = 1): NOT AVAILABLE

VAPOR PRESSURE: NOT AVAILABLE (MM HG)

VAPOR DENSITY: NOT AVAILABLE (AIR=1)

VIS. CS (40 DEG C) 20

PRODUCT NAME: AEROSHT R	FLUID 4		MSDS 58, 100
AFPEARANCE AND ODOR AMBER .	TIPLE I DEET GOOD	CARRON COCC	PAGE 3
	110.1 3110m muku	LARECH SUCK	
SECTION VIII	FIRE AND EXPLOSI	ON 1474000	
	FIRE AND EXPLUSI	UN HAZAKUS	
FLASH POINT AND METHOD: Did DEG F (CDD)		FLAMMABLE LIMITS /% VOLU- LOWER N. AV UPPER	ME IN AIR N/AV
EXTINGUISHING MEDIA USS WATER FOG. FOAM, DRY CHE AND CAN BE REIGNITED ON SURF	MICAL OR CO2 OO NOT ACE OF WATER.	T USE A DIRECT STREAM OF W	ATER PRODUCT WILL FLO
SPECIAL FIRE FIGHTING PROCEDS MATERIAL WILL NOT BURN UNLES THELMET WITH FACE SHIELD. BUS NIOSH-APPROXED SELF-CONTAINES	S FREHELTED DO NOT NKER JOATS: GLOVES AN	ND RUBBER FOOTS! INCHIDING	Editorade Evittand A 2
SECTION IX	REACTIVITY		
STABILITY STABLE CONDITIONS AND MATERIALS TO A	CHEMIC	POLYMERIZATION: WILL NOT LAC BRACE DOWN IN	DOCCUR DWHICH ONE
AVOID HEAT, OPEN FLAMES AND D			
HAZARDOUS DECOMPOSITION PRODUCT THERMAL DECOMPOSITION PRODUCT MIXTURE OF AIRBORNE SOLIO. LIPYROLYSIS OR COMBUSTION. CARUPON COMBUSTION.	'S ARE HIGHLY DEPENDE QUID, PARTICULATES A	NT ON THE COMBUSTION CONDI	THIS MATERIAL LINDERCOE
CECTION V			
SECTION X	EMPLOYEE PROTECTI	ON	•••••
RESPIRATORY PROTECTION IF EXPOSURE MAY OR DOES EXCEE RESPIRATOR TO PREVENT OVEREXP ATMOSPHERE-SUPPLYING RESPIRAT	OSURE. IN ACCORD WIT	TH 29 CER 1910 134 USE ETT	HED AN
PROTECTIVE CLOTHING WEAR CHEMICAL RESISTANT GLOVE	S AND OTHER BROTECTTS	WE CLOTHING AS DECULTION T	0 47174177 0444
WEAR SAFETY GOGGLES TO AVOID CLOTHING MANUFACTURERS INDICA	EYE CONTACT, TEST (DATA FROM PUBLISHED LITERA	TURE AND/OR GLOVE AND
SECTION XI	ENVIRONMENTAL PROT	_	

SPILL OR LEAK PROCEDURES

MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LARGE SPILLS.

LARGE SPILLS ** WEAR RESPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK

IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACCUM TRUCKS OR PUMP TO STORAGE SALVAGE

VESSELS. SOAK UP RESIDUE WITH AN ADSORBENT SUCH AS CLAY. SAND. OR OTHER SUITABLE MATERIALS;

OISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. *** SMALL SPILLS *** TAKE UP

WITH AN ABSORBENT MATERIAL AND OISPOSE OF PROPERLY.

WASTE DISPOSAL

PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.

ENVIRONMENTAL HAZARDS

THIS PRODUCT IS CLASSIFIED AS AN DIL UNDER SECTION 311 OF THE CLEAN WATER ACT. SPILLS ENTERING (A) SURFACE WATERS OR (B) ANY WATER COURSES OR SEWERS ENTERING/LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER. 800-424-8602.

PRODUCT NAME: AEROSHELL(R)

SECTION XII

SPECIAL PRECAUTIONS

MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOLET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT CANNOT BE DECONTAMINATED. STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

SECTION YITT

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION. NOT HAZARDOUS BY D.D.T. REGULATIONS

SECTION XIV

OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA TSCA INVENTORY OF CHEMICAL SUBSTANCES

TSCA - TOXIC SUBSTANCE CONTROL AET

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SHELL ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

DATE PREPARED: NOVEMBER 21, 1985

BE SAFE

READ OUR PRODUCT
SAFETY INFORMATION ...ANO PASS IT ON
(PRODUCT LIABILITY LAW
REQUIRES IT)

JOHN P. SEPESI

SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIANCE
P. O. BOX 4320
HOUSTON, TX 77210

LT. "LEE" SAWYER, INC.

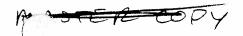
JOBBER

SHELL OIL & SHELL CHEMICAL PRODUCTS

14117 Aeina St., Van Nuys, CA

786-8180 Box 369. Van Nuys, CA 91408





MATERIAL SAFETY DATA SHEET

MSDS NUMBER

58,100-2

PAGE

24 HOUR EMERGENCY AS SHELL: 713-473-9461 CHE	SISTANCE GENERAL MSDS EMTREC: 800-424-9300 SHELL: 713		BE SAFE
·····································	HAZARD RATING LESST IN SUMAT	W 2555478 5	READ OUR PRODUCT SAFETY INFORMATION AND PASS IT ON
*For acute and chr	onic health effects refer to the discussion in Section		IPRODUCT LIBEL ITT LAW REGURES (1)
SECTION	NAME		
PRODUCT LEROSHELLIR - FL	U10 4		
CHEMICAL MINTURE (SEE SE	C = 1:-4)		
PETROLEUM HYDRO	CARBON: AVIATION CIL EPA - AQMI	Э.	
5HEU 6043:			
ECTION II-A	PRODUCT/INGREDIENT		
o.	COMPOSITION	CAS NUMBER	PERCENT
AEROSHELL FLUID 4		MIXTURE	100
	DTREATED, MIDDLE DISTILLATE DTREATED, HEAVY NAPHTHENIC DISTILLATÉ; OIL	64742-46-7 64742-52-5 MIXTURE MIXTURE	75-80 5-10 10-15 <1
ECTION II-B	ACUTE TOXICITY DATA		
). ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALA	TION LC50
NOT AVAILABLE			
ASED ON DATA AVAILABLE TO	SHELL, COMPONENTS 3 AND 4 IN THIS PRODUC	T ARE NOT HAZAR	DOUS UNDER OSHA
ZARD COMMUNICATION (29 CF	k 1910.1200).		
CTION III	HEALTH INFORMATION		
HE HEALTH EFFECTS NOTED BE	LOW ARE CONSISTENT WITH REQUIREMENTS UNDE	ER THE OSHA HAZA	ARO COMMUNICATIO
'E CONTACT			

LUBRICATING OILS ARE GENERALLY CONSIDERED NO MORE THAN MINIMALLY IRRITATING TO THE EYES.

SKIN CONTACT

LUBRICATING OILS ARE GENERALLY CONSIDERED NO MORE THAN MILDLY IRRITATING TO THE SKIN. PROLONGED AND REPEATED CONTACT MAY LEAD TO VARIOUS SKIN DISORDERS SUCH AS DERMATITIS. OIL ACNE OR FOLLICULITIS.

INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM THIS PRODUCT MAY CAUSE MILD IRRITATION OF THE UPPER RESPIRATORY TRACT.

WATERIAL SAFETY DATA SHEET (Essentially similar to Form OSHA-20) < 0 with 29CFR 1910.1200> . SECTIO 24.4 A0600 GODE NUMBER: DATE 880107 TRADE NAME: HIL-H-5806E AM1 MMLS 94-136 SUPERCEDES 870203 PETROLEUM QHEMICAL FAMILY: CARCINOGENIC INGREDIENTS/OSHA/NTP/JARC: "HIXTURE" C.A.S. NO.: NONE NOT CURRENTLY LISTED TSCA INFORMATION: - HAZARDOUS INGREDIENTS SECTION II -COMPONENTS TLV/PEL C.A.S. NO8.: PERCENT BY PPM mg/m³ WEIGHT/VOLUME SULU REF PETR BASE STUCK 1712-14-2 **(8547** 14741-97-5 81712-53**-6** THIS PRODUCT DEFINED AS NON-HAZARDOUS EXCEPT AS STATED ABOUE. DISCLOSURE OF INGREDIENTS AVAILIBLE TO PHYSICIAN OR NURSE IN EVENT OF HEDICAL EMERGENCY. SECTION III - FIRE AND EXPLOSION HAZARD DATA CARBON HOROXIDE AND ASPHYXIANTS FLAMMABLE N/A LIMITS: ASTH D93(PMCC) EXTINGUISHING DIOXIDE, DRY CHENICAL, FLASH POINT: MADIA: LINEBUN D 85 (182° F) **DOT INFORMATION:** COMBUSTIBLE LIQUID, N.O.S. UNUSUAL FIRE AND EXPLOSION HAZARDS: SLIGHTLY COMBUSTIBLE, WHEN HEATED ABOVE FLASH POINT WILL RELEASE FLAMMABLE UAPORS WHICH CAN BURN IN OPEN OR BE EXPLOSIVE IN CONFINED SPACES IF EXPOSED TO SOURCE OF IGNITION. SPECIAL FIRE DO NOT ENTER ANY ENCLOSED OR CONFINED PIGHTING PROCEDURES PROTECTIVE EQUIPMENT AND SELF CONTAINED BREATHING **iapp**aratus. SECTION IV - PHYSICAL DATA BOILING RANGE: 175° C SOLUBILITY: N/O VAPOR PRESSURE 20 0 C <0.01MM Hg RED, OILY LIQUID APPEARANCE AND ODOR: PETROLEUM ODOR VAPOR DENSITY WEIGHT PER GALLON EVAPORATION RATE % VOLATILE BY VOLUME HEAVIER THAN AIR LESS 1.848 7.23 THAN ETHER MIL SECTION V - REAC TIVITY DATA INCOMPATIBILITY MATERIALS TO AVOID >: STRONG OXIDIZING ACENTS STABILITY: CONDITIONS TO AVOID: DO NOT HEAT ABOUE FLASH POINT. 1822 STABLE HAZARAR HERRE CHE CHILDREN PRODUCTS: OCCUPATIONAL EXPOSURE LIMIT HAZARDOUS POLYMERIZATION NONE

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PERSONAL PROTECTION (NFPA)	HEALTH (1) REACTIVITY	> 2
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	€FFECTS:	PROCEDURES:	
R G	CANDE MAY ILL EFFECTS EXCEPT IN MENY SENSETTING	CONSULT PHYSICIAN	NF
U BREAT T N H	MEALTH EFFECTS ARE EXPECTED TO OCCUR ON SHORT TERM EXPOSURE	REMOVE FROM CONTANTHATED AREA. APPLY ARTIFICIAL RESPIRATION. IF UNCONCIOUS CONSULT PHYSICIAN	
F ECYO	EVERT IN HERM ACMARTIN	FLUSH WITH COPTOUS ANOUNTS OF WATER. IF IRRITATION DEVELOPES CONSULT PHYSICIAN	
O UII	C. NOT HORMALLY EXPECTED TO CAUSE ANY ILL EFFECTS EXCEPT IN VERY SENSITIVE INDIVIDUALS	HASH WITH SORP AND WATER. CONSULT PHYSICIAN IF IRRITATION OF INFLAMMATION DEVELOPES.	
CSC NKC RIN ON N- C	CONTACT HAY PRODUCE HILD SKIN IRRITATION AND INFLAM- MATION. PERSONNEL HITH PRE-EXISTING SKIN DISORDER SHOULD AUGID CONTACT.	HEAR PROTECTIVE CLOTHING TO AUDID SKIN CONTACT. CONSULT PHYSICIAN IF IRRITATION OR INFLANMATION DEUELOPES.	
をぞく	DOTE SECTION VII - SPIL	LODIENI	

TESECTION VI - HEALTH HAZARD

JVERSE

SPILL OR LEAK PROCEDURES SEPA Steps to be taken in case

MATERIAL IS RELEASED OR SPILLED: STOP FLOM. HIPE OR HOP UP OR ASSORS HITH DIATOMACEGUS EARTH OR OTHER INERT MATERIAL. STORE IN APPROPRIATE CONTAINER FOR

WASTE DISPOSAL METHOD: 4

UME

IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

TRANSPORTATION INFORMATION CONSULT 49 CFR PARTS 1-300 AND REFER TO SECTION IT! OF THIS HISDS FOR ADDITIONAL RECCOMMENDATIONS CONCERNING PLACARDING.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATOR PROTECTIONS NOW HORMALLY REQUIRED

PROTECTIVE GLOVES RECCORRENDED

EYE PROTECTIONS REMIRED

OTHER PROTECTIVE EQUIPMENT

CHEMICALLY RESISTANT BOOTS AND APRONS RECCOMMENDED

VENTILATION SUFFICIENT TO MAINTAIN ATMOSPHERE BELOW TLU LIMIT

ION IX - SPECIAL PREQAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING OR STORING: EXCESSIVE MISTING MAY CAUSE SLIPPERY FLOORS. PROPER FOOTHEAR REQUIRED.

PERSONAL MYCHENES WASH MANDS HITH SOAP AND HATER BEFORE EATING, DRINKING, OR SHOKING.

OTHER PRECAUTIONS: MASH OR TAKE SHOWER IF GENERAL CONTACT OCCURS. REMOVE OIL-SOAKED CLOTHING AND LAUNDER BEFORE REUSE. DISCARD CONTANINATED LEATHER CLOUES AND

APPROVED BY: RICHARD J. EBERHHRDT LABORATORY HADAGER

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DEFINITIONS

ACGIH: American Conference of Governmental Industrial Hygienists

DOT: Department of Transportation

LC50: Lethal Concentration Fifty: A calculated concentration of a substance which

is expected to cause death of 50% of an entire defined experimental animal

LD50: Lethal Dose Fifty: A calculated dose of a substance expected to cause death

of 50% of an experimental animal population.

LEL: Lower Explosive Limit

Fire

Health

Reactivity

Personal Protection

Hazard Category Scheme: This scheme rates health,

fire, reactivity and special hazards on a scale of 0 to 4.

0 = no significant hazard

3 = high hazard

1 = slight hazard

4 = extreme hazard.

2 = moderate hazard

PEL: Permissible Exposure Limit

N/A: Not Applicable

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N/D: Not Determined

NFPA: National Fire Protection Association

TLV: Threshold Limit Value. A recommended upper limit or TWA or or Kind

concentration of a substance to which most workers can

be exposed without adverse effect.

TWA: Time Weighted Average

ING: Ingestion

INH: Inhalation

CON: Contact

PERSONAL PROTECTION INDEX PB 8 DQ + D E Ask your supervisor for specialized handling directions

THE THE PERMIT









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1.4 33th) no 35,1216

Lubricating Specialties **¿Company**

ปี 8018 Paramouni Blyd. # PICO Rivers. CA 90660-4888 Telephone (213) 928-3311

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MIAIERIAL SAFEIT DAIA

SKYDROL® 500B-4 Fluid

MONSANTO PRODUCT NAME

SKYDROL® 500B-4 FIRE RESISTANT HYDRAULIC FLUID MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167

Emergency Phone No. (Call Collect) 314-694-1000

PRODUCT IDENTIFICATION

SKYDROL® 500B-4 fire resistant hydraulic fluid is a proprietary product. The formulation is a trade secret of Monsanto Company. See the section on OCCUPATIONAL CONTROL PROCEDURES for the identity of two components regulated by a standard of the Occupational Safety and Health Administration (OSHA). All components of SKYDROL 500B-4 fluid appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA).

Chemical Family:

Phosphate esters with performance additives.

DOT Hazard Class:

This product is not classified as a hazardous material by the U.S.

Department of Transportation.

Label Requirement:

Product Label

Reportable Quantity (RQ) Under U.S. Clean Water

Act Regulations:

Not Listed

U.S. Surface Freight

Classification:

Hydraulic System Fluid, Other Than Petroleum

WARNING STATEMENTS

CAUTIONI:

MAY CAUSE IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT

PRECAUTIONARY MEASURES

Avoid prolonged or repeated skin contact. Wear impervious gloves of n butyl nitrile rubber.

Do not get in eyes. Wear chemical safety goggles.

Avoid breathing mist or vapor. Wear a NIOSH approved respirator when mist or vapor is possible.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed. DO NOT REUSE CONTAINER.

EMERGENCY AND FIRST AID PROCEDURES

FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Call a physician.

IF ON SKIN, immediately wash with soap and plenty of water. Remove contaminated clothing. Wash clothing before reuse.

OCCUPATIONAL CONTROL PROCEDURES

Eye Protection:

Wear chemical safety goggles to prevent eye contact.

Skin Protection:

Wear appropriate impervious gloves and protective clothing to prevent skin contact. Wear face shields and aprons when splashing is likely. Launder con-

taminated clothing and clean protective equipment before re-use.

(Occupational Control Procedures Continued On Next Page)

(Form designed for use	/ (12-pitch) typewriter.)		Department of Healt Toxic Substances Contro Sacramento,
WASTE MANIFEST	1. Generator's US EPA ID No. ○ A 立 ○ ○ 6 4 6 2	Manifest 2. Pr	age 1 Information in the shaded is not required by F
Generator's Name and Mailing Address	C C C C C C C		law.
FLIGHT ACCESSORY SERVICES			ate Manifest Document Number -
1210 PHEFTING WAY			DOTOCALAS
4. Generator's Phone (12) 75-2	14 2 p	(350)	ate Generator's ID
5. Transporter 1 Company Name			AD 9814233200 .
FIRST KING DALIN OIL	workers will have been	G. G.	ate Transporter's ID 149 4 CCO
7. Transporter 2 Company Name			ansporter's Phone : 2224007-8
	o. 09	C-31	ate Transporter's ID - State
9. Designated Facility Name and Site Address			Ansporter's Phone
Fel. 1835 E. 2435T	10. 03	200	ate Facility's ID
FISCAL HILLS CA			Ta86011059
5 12040 -122 64		I washed	cility's Phone:
		001/1/05/7	-375-6517
 US DOT Description (Including Proper Shippi 	ng Name, Hazard Class, and ID Nut	nber) 12. Containers	13. 14. Unit
		No. Type	Quantity WtVol
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WASTE OIL		200 Page 18-18-18-18-18-18-18-18-18-18-18-18-18-1	Above
		THE PERSON NAMED IN	************************************
WATER	-		K O L
		Alternative to the	
5. Special Handling Instructions and Additional i	nformation	では、	
MEREE GYNES			
GENERATOR'S CERTIFICATION: I hereby declar	e that the contents of this consists	ment are fully and comment	
		all respects in proper condition	n for transport by highway
S THE STATE OF THE	nai ooyeiiiiieni (edillationa		
Unless I am a small quantity generator who under Section 3002(b) of RCRA, I also certificate determined to be economically gractically practically pra	has been exempted by statute o	r regulation from the duty to	make a waste minimization certific
have determined to be economically practical minimizes the present and future threat to hum	ble and I have selected the metho	od of treatment, storage, or o	icity of waste generated to the deg
minimizes the present and future threat to hum Printed/Typed Name	and the environment.		are the second of the second o
	Signature	- 6	Month Day
-EWIL AUGUSTINE		L'augustine	0141210
Transporter 1 Acknowledgement of Receipt of	Materials	J	F/ 1/1-1
Printed/Typed Name	Signature		Month Day
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	Materials	201 201	THE
. Transporter 2 Acknowledgement of Receipt of			
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Transporter 2 Acknowledgement of Receipt of Printed/Typed Name Discrepancy Indication Space			
Transporter 2 Acknowledgement of Receipt of Printed/Typed Name Discrepancy Indication Space Facility Owner or Operator: Certification of re	ceipt of hazardous materials cover	red by this manifest except a	
Transporter 2 Acknowledgement of Receipt of Printed/Typed Name Discrepancy Indication Space		red by this manifest except a	

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	Saci	ran	iento,	Californ	nlı

	1	UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator a USE	71103 R	PA	2. Pa of	ge 1		nation in the ot required	
/		3. Generator's Name and Mailing Address FLIGHT ACCESSORY SERVICES Retu 11310 Sherman Way	irn To Generator		魏	361	260		este Att.
		4. Shiratory alchery, CA, 213	875-2930		7148000	te Gene		Company of the Compan	1226
		5. Transporter 1 Company Name 6. CHEM-RAN PUMPING SERVICES, INC.	US EPA ID Num	ber ,4 , 2,5	C. Str	ite Trans	porter's	10: 70	
		7. Transporter 2 Company Name 8.	US EPA ID Num		8. Bts	te Trans	porter's	ID *	1-0508
		Designated Facility Name and Site Address 10.	US EPA ID Num	ber	_	naporte		100.00	
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		11. US DOT Description (Including Proper Shipping Name, Hazard Cla	ss, and ID Number)	12. Cont	Type	Т	13. otal antity	14. Unit	White No.
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26098		J. Additional Descriptions for Materials Listed Above Nickel Chloride 202 Cyanide Absorbant 782			The second	03/1	1119	Wastes Light	
861		15. Special Handling Instructions and Additional Information G L oves							•
		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of proper shipping name and are classified, packed, marked, and labe according to applicable international and national government requirements I am a small quantity generator who has been exempted under Section 3002(b) of RCRA, I also certify that I have a prophave determined to be economically practicable and I have seleminimizes the present and future threat to human health and the entered/Typed Name LEW AUGUSTINE	iled, and are in all respects illations. d by statute or regulation fram in place to reduce the cted the method of treatment invironment. Signature	from the	conditio	n for tra	waste	minimization	the degree I o me which
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ſ		19. Discrepancy Indication Space							
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	ţ	20. Facility Owner or Operator: Certification of receipt of hazardous		manifest e	xcept a	s noted	in Item		
- 1	1	Printed/Typed Name Opnis Fracqu	Signature		7	11	16	Month	Day Year

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1 4	Generator's Phone				0.6	901	.34	S 1 4	
5.	Transporter 1 Company Name	<u> </u>				tate Gen			Section 2
$\Pi \Gamma$	Company Name	6.	US EPA ID	Number	- C/	0 98	142	332	0
7.	Transporter 2 Company Name	1917		121: 121:	CIS	tate Tran	sporter	s ID du	1200
	2 Company Name	8.	US EPA ID	Number		ranaporte	r's Pho	101919	1977-9
9.	Designated Facility Name and Site Address		LILL	1111	E 7	lety Trens	sporter'	B ID	第2000年
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15. Spe	ATEL ATEL ATEL ATEL ACIAL Handling Instructions and Additional BERATOR'S CERTIFICATION: I hereby declar Ber shipping name and are classified, pack aciding to applicable interesting	information re that the contents of this consigned, marked, and labeled, and are	nment are fu	lly and accura	R.	Or I	Dove by		ā.
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DHS 8022 A (1/87) EPA 8700-22

(Rev. 9-86) Previous editions are obsolete.

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Manifest

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of

Department of Health Services
Toxic Substances Control Division
Sacramento, California

Month Day

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DHS 8022 A (11/85) (EPA 8700—22)

Printed/Typed Name

YELLOW: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Signature

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(Rev. 9-86) Previous editions are obsolete.

DHS 8022 A (1/67)

EPA 8700-22

INSTRUCTIONS ON THE BACK

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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-4

\$	WASTE MANIFEST	Generator's US EPA ID No. A D O O O 6 4 6 2 5	Document Document		of Inform	How My Branch
	3. Generator's Name and Mailing Address FLIGHT ACCE SSORY 11310 SHERMAN LUAY, SC 4. Generator's Phone (818) 765 - 626	SERVICES		A. 8t	8775 ate Generator's ID A H Q 3 6	8182
	5. Transporter 1 Company Name RHO-CHEM CORP. 7. Transporter 2 Company Name	6. US EPA ID C A D O O S 8. US EPA ID		C. St.	ate Transporter's ID ansporter's Phone	TANY
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IN GASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424

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+	Transporter 2 Company Name 8.	US EPA ID	Number	131216	_	ansporter's Phon ate Transporter's	7757	130-82
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3. Generator's Name and Mailing Address			A. St	ite Manifest Doc	cument Number
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11310 SHEKMAN UMY				ate Generator's	4.4
4. Generator's Phone (818) 745 - 4201	6. US EPA ID Num		14	AIHQIS	601212101
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4. Generator's Phone (818) 765-6201		1	te Generato		
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Disposal Control Ser C A T O 8 O O 3		D. Tri	insporter's P	none 1-80	00-82b-33
7. Transporter 2 Company Name 8. US EPA ID Numb	er	E. Sta	ite Transport	ter's ID	
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2190 Main St.		H. Fa	cility's Phone		-
San Diego, CA 92113 C A D 0 9 5 8 9			619-23	3-0424	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Conta	iners	13. Tota Quan		
a.	No.	Туре	Guan	Wt/V	/ol
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J. Additional Descriptions for Materiala Listed Above	111	1	111		Co Mit Other
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7. Transporter 2 Company Name	8. US EPA ID Numbe	er .		Transporter's IE	
			F. Transp	orter's Phone	13.
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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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a Generator's Name and Mailing Address Flight Accessory Services	UIGIDI	A. Sta	te Manifest I		
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Sun Valley CA C1359		B. Sta	te Generator	'a ID	er signi i jeget
4. Generator's Phone (818) 765-6201		H	AROL	6 0	2206
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San Diego, CA 92113 C A D 0 9 5 8 9 4			619-23		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Conta	inera	13. Tota Quan		4. nit Wast
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IN CASE OF AN EMEDGENCY OF SHIT. CALL THE NATIONAL DESPONSE CENTED 1 200 404 0000. MITHIN CALLEDDAIL AND 200 200 7550

	6.						
1	5. Special Handling Instructions and Additional Information Rubber Cloves + SAFcky	Glasse:		<u>[</u>		L	.1
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	WASK OIL + WATER.			K	201	b.	
	J. Additional Descriptions for Materials Listed Above	· · · · · · · · · · · · · · · · · · ·		K. Ha	ndling Codes for V	Vastes I	EPA/Other
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	11. US DOT Description (Including Proper Shipping Name, Hazard	CATOFICION	12. Cont	ainers	13. Tofal Quantity	14. Unit	1.
	SignAL Hill , CA.	CATO		H. Fa	cifity's Phone	_	
	PRI 1835 E. 29 5+	SS E. A ID HAMDE		1/4	71031	20V	72512
 	9. Designated Facility Name and Site Address 10	D. US EPA 1D Numbe	<u> </u>	 	ansporter's Phone ate Facility's ID	-	
	7. Transporter 2 Company Name 8.	US EPA ID Numbe	r		ate Transporter's	ID T	, , , , , , , , , , , , , , , , , , ,
	KING + KING OIL	CA149184142	317121	D. Tr	ansporter's Phone	213	439-1
	5 Transporter 1 Company Name 6	IIS EDA ID Numbe		10 96	AHQ36 afe Transporter's	10 KZ	1200
	4. Generator's Phone (8/8) 765-6261	91352		1			2066
	Flight Aceessury Services 11310 Sherman Lunx sun V	Talley Ex		D 61	d / b 4		1
	WASTE MANIFEST 3. Generator's Name and Mailing Address			A. Si	ate Manifest Doc	ument Nu	mber

DHS 8022 A (1/87) EPA 8700-22

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

INSTRUCTIONS ON THE BACK

INDEADS HATSDOMIN A		Manifest			HEG.		Sacramen ne shaded are
UNIFORM HAZARDOUS WASTE MANIFEST	D 00 0 5 4 4 1000 5 7	ument I	No.		of 1 is no	t required i	by Federal la
3. Generator's Name and Mailing Address				A. Sta	ite Manifest Dog	313	411
Flight Accessory Services	Valley, CA 91352				ite Generator's II		
11310 Sherman Way Sun 4. Generator's Phone (818) 765-6201	INTERPORT				a Hola		2016
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Disposal Control Service	C A T 0 8 0 0 3 4	1 8	3 4		insporter's Phone	_/_	83-0342
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San Diego, CA 92113	C A 0 0 9 5 8 9 4			<u> </u>	9-233-04		1 .
tt. US DOT Description (Including Proper Shipping	Name, Hazard Clasa, and ID Number)	t2.		Type	t3. Total Quantity	14. Unit Wt/Vol	Wast
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mud 10-15%				1		d ,	
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Do Not Write Below This Line Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 D

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			A. State	Manifest Docum	
Flight ACCE SSORY Se 11310 Sherman Way. S	(1)	7,	1		3468
4. Generalor's Phone (818) 715- 62.01	un vaccey, u	~ \	B. State	Generator's ID	
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t5. Special Handling Instructions and Additional Information	**************************************	R	RC	· ·	•
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Constitution Phone (818) 765-6201			77 1	e Transporter's ID	34	200
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DHS 8022 A (1/87)

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-755

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Flight ACCESSORY Service 11310 Sherman Way, Shu VA	ALLEY, CA.		B. Sta	te General			
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Combustable Liquis WASTE OIL + WATER N.	.U.S. XIA 1270	0197		0016	1215	10	DOO
b.							State
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J. Additional Descriptions for Materials Listed Above			K. Har	idding Code	s for W	astes Li b.	sted Above
WASHE OIL + WATER			R	OI	ļ		
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t5. Special Handling Instructions and Additional Information							
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t6. GENERATOR'S CERTIFICATION: I hereby declare tha	t the contents of this consignme	nt are fully an	d accur	ately desc	ribed a	bove by	y proper shipp
	d, and are in all respects in pro	per condition	for tran	sport by I	nighway	accord	ling to applic
name and are classified, packed, marked, and labeled			toxicity	of waste	generat	ed to th	ne degree I ha
international and national government regulations.	nongram in place to reduce the	volume and		storage, c	r dispo	sal curr	ently available
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J. Additional Descriptions for Materials Listed Above	DON'T FOOST	1000	K. Har	ndling Codes for V	actes L	isted Above
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t5. Special Handling Instructions and Additional Information			7	<u></u>	21)	
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20. Facility Owner or Operator Certification of receipt of hazar	dous materials covered by this ma	nifest excep	as note	Л		Month Day Yea
Printed/Typed Name TUAN J. UNIAPPETE	Signature		(1),	osolle		IV&ITI8181
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DHS 8022 A 1/88) EPA 8700—22 (Rev. 9-88) Previous editions are obsolete.

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3. Generator's Name and Mailing Address		A. State Manifest Document Number			
FLIGHT ACCESSORY SERVICES	89969902 B. State Generator's ID				
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DNR MICHIGAN DEPARTM OF NATURAL RESOURCES

DO NOT WRITE IN THE

CE PR. 🗆 Failure to file is punishable under section 299,548 MCL or Section 10 of Act 136, PA 1969

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A	UNIFORM HAZARDOUS	Generator's US E		Manifest Document No	2 Page 1	Informa is not	required	e shaded	lareas edera
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J	. Additional Descriptions for Materials	Listed Above			K. Handlii	g Codes f	or Waste:	s a/	
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1	5. Special Handling Instructions and Add	itional Information			7 .	~,			
-	and the second of the second					> .	1		
16	GENERATOR'S CERTIFICATION: I hereby declare								
	proper shipping name and are classified, packed, according to applicable international and national			proper condition	for transport	by highway			
	If I am a large quantity generator, I certify that I	I have a program in pla	ce to reduce the volu	me and toxicity	of waste gen	erated to the	degree! h	nave dete	rmine
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· /	3. Transporter 2 Acknowledgement or Rec	ceint of Materials	1	4-17				/ Dep	1/1
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19	Discrepancy Indication Space								
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20	Facility Owner or Operator Certification	of receipt of hazardo	ous materials cover	ed by this ma	nifest exce	ot as noted	in		
<u> </u>	Item 19							Date	
	Printed/Typed Name		Signature	- ,			Mor	nin Day	Yea
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EPA Form 8700-22 (Rev. 9/88)

	OF NATURAL RESOURC ATT DIS. REJ.	PR.
PI	ease print or type I UNIFORM HAZARDOUS Generator's US EPA ID No. Manifest	Form Approved. OMB No 2050-0039 Expres 9-30-91
1	UNIFORM HAZARDOUS Generator's US EPA ID No. Manifest CADOOCA46257189598	2 Page 1 Information in the shaded areas is not required by Federal
	3 Generator's Name and Mailing Address	A. State Manifest Document Number
	HIGHT ACCESSORY SERVICE 11310 SHERMAN WAY SUN VALLEY CA.	MI 2047462
	[[things of the world of the black of the control o	B. State Generator's ID
	4 Generator's Phone (8/8) 765-6201 9/352 5 Transporter 1 Company Name 6 US EPA ID Number	HAHQ 36-022066
	Disposal Control Sev. ICATO8003141(184	C. State Transporter's ID##3033
	7 Transporter 2 Company Name 8 US EPA ID Number	E. State Transporter's ID
	9 Designated Facility Name and Site Address 10 US EPA ID Number	F. Transporter's Phone
	CYANOKEM	G. State Facility's ID
.	12381 ShATTER	He Facility's Phone
	Detroit M: 45227 MIDIO9801119192	(313)353-5380
G	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	
E	RQ HAZARDOUS WASHE Solid MOS	D 0.03
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	Additional Descriptions for Majerials Listed Above	
-	11A) AA CYANIDE / CADMINIUM WASTE	K. Handling Codes for Wastes a/ /
:	SEE ATTACHED PROFILE ShEET	b/ /
	D 1 4 W-13745	c/ /
.	15 Special Handling Instructions and Additional Information	d/ /
$\left \cdot \right $	WEAR APPROPRIATE SALETY PROTECTION	· (3×55)
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	If I am a large quantity generator. I certify that I have a program in place to reduce the volume and toxicity of	waste generated to the degree! have determined
	to be economically practicable and that I have selected the practicable method of treatment, storage, or dispersion and future threat to human health and the environment; OR, if I am a small quantity generator, I have generation and select the best waste management method that is available to me and that I can affor	ive made a good faith effort to minimize my waste.
		Date
1	Printed/Typed Name Signature Signature	Month Day Year
7	17. Transporter 1. Acknowledgement of Receipt of Materials	070690
R	Printed/Typed Name Signature	Date Month Day Year
5	MICHAELB. VANAISTINE (MICHAELBE	a 15 107106190
0	18 Transporter 2 Acknowledgement or Receipt of Materials	Date -
E	Printed/Typed Name Signature	Month Day Year
	19. Discrepancy Indication Space	
FAC		
L		
1	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this man	ifest except as noted in
	Printed/Typed Name Signature	Date O
		Month Day Year
EP/	A Form 8700-22 (Rev. 9/88) To be mailed by Michigan DNR	PR SI 10
	Generator to: Box 30038	Rev 9/88

ALL SPILLS MUST BE REPORTED TO THE MICHIDAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

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Department of Pollution Control and Ecology P. O. Box 9583 Lit ck, Arkansas 72219 Telephone 501-562-

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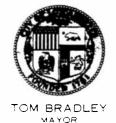
SOARD OF

PUBLIC WORKS

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DEPARTMENT OF PUBLIC WORKS

BUREAU OF SANITATION

DELWIN A. BIAGI DIRECTOR HARRY M SIZEMORE ROBERT M ALPERN MICHAEL M. MILLER ASSISTANT DIPECTORS

200 NORTH MAN STREET LOS ANGELES, CA 90012 (213) 485-5112 FAX No (213) 626-5514

INDUSTRIAL WASTEWATER PERMIT

PERMIT NO: W-456607

RE-ISSUED APRIL 4, 1991 EFFECTIVE APRIL 4, 1991 EXPIRES APRIL 30, 1993

COMPANY NAME:

Hawker Pacific Inc., Flight Accessory Services

MAILING ADDRESS:

11310 Sherman Way

Sun Valley, CA 91352

LOCATION ADDRESS:

11310 Sherman Way

Sun Valley, CA 91352

EPA PRETREATMENT CATEGORY: Electroplating (Existing Source -

40 CFR 413 Subparts A, E and F -

Less than 10,000 GPD)

In accordance with the provisions of the Los Angeles Municipal Code (L.A.M.C.) Section 64.30, the above identified facility is hereby authorized to discharge industrial wastewater through the discharge points identified herein to the City of Los Angeles sewer system in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit. Compliance with this permit does not relieve the permittee of its obligation to comply with all pretreatment regulations, standards or requirements under Local, State and Federal laws, including any such laws, regulations, standards or requirements that may become effective during the term of this permit.

Noncompliance with the terms and conditions of this permit shall constitute a violation of the L.A.M.C. Section 64.30. This permit becomes void upon any change of ownership or location whatsoever. In order to continue to discharge after the expiration date of this permit, an application must be filed for a new permit at least 90 days prior to the expiration date.

> DELWIN A. BIAGI, Director Bureau of Sanitation

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	Attachment A - Site Plan Attachment B - Site Plan (Building #1) Attachment C - Site Plan (Building #2) Attachment D - Site Plan (Building #3) Attachment E - Site Plan (Building #4) Attachment F - Site Plan (Building #5) Attachment G - Plating Shop Lay-out Attachment GA- Plating Shop Lay-out Attachment H - Tank Schedule Attachment I - Process Flow Diagram - Chrom Attachment J - Process Flow Diagram - Nicke Attachment K - Process Flow Diagram - Nicke Attachment L - Process Flow Diagram - Ochromating Attachment M - Pretreatment System Schematic	ine el Plating Cadmium Plating &

REPORTING INFORMATION:

See Enclosure

Page

Enclosure - Self-Monitoring Report Instruction Packet and Report Form

PART 1 - DISCHARGE LIMITATIONS

A. The permittee is authorized to discharge industrial wastewater to the City of Los Angeles sewer system from the sampling point(s) listed below.

Description of sampling point(s):

Sampling Point(s)	<u>Description</u>	
01	The secured sampling fa located directly after s clarifier (Attachments GA and	5-stage

B. The discharge from Sampling Point 01 shall not exceed the following Federal discharge limitations:

FEDERAL

DISCHARGE LIMITATIONS

(Pretreatment Standards for Existing Sources, 40 CFR 413)

<u>Constituents</u>	<u>Units</u>	Daily <u>Maximum</u>	4-Day <u>Average</u>
Cadmium	mg/l	1.2	0.7
<pre>Cyanide(Free)[1]</pre>	mg/l	5.0	2.7
Lead	mg/l	0.6	0.4
Total Toxic[2] Organics (TTO)	mg/l	4.57	

C. The discharge from Sampling Point 01 shall not exceed the following Local discharge limitations:

LOCAL DISCHARGE LIMITATIONS

<u>Constituents</u>	<u>Units</u>	<u>Instantaneous Maximum</u>
Arsenic	mg/l	3.0
Cadmium	mg/l	15.0
Chromium(Total)	mg/l	10.0
Copper	mg/l	15.0
Cyanide (Free)	mg/l	2.0
Cyanide(Total)	mg/l	10.0
Lead	mg/l	5.0
Nickel	mg/l	12.0
pH Stand	lard Units (S.U.)	5.5-11.0
Silver	mg/l	5.0
Zinc	mg/l	25.0
Dissolved Sulfides	mg/l	0.1
Dispersed Oil & Grease	mg/l	600.0

Footnotes to Discharge Limitations

- [1] Cyanide (Free) shall mean cyanide amenable to chlorination as defined by 40 CFR 136.
- [2] Total Toxic Organics (TTO) shall be the summation of all quantifiable values greater than 0.01 milligrams per liter for the following toxic organics:

Acenaphthene 4-bromophenyl phenyl ether Acrolein Bis(2-chloroisopropyl) ether Acrylonitrile Bis(2-chloroethoxy) methane Benzene Methylene Chloride Benzidine Methyl Chloride Carbon tetrachloride Methyl Bromide (tetrachloromethane) Bromoform Chlorobenzene Dichlorobromomethane 1,2,4-trichlorobenzene Chlorodibromomethane Hexachlorobenzene Hexachlorobutadiene 1,2-dichloroethane Hexachlorocyclopentadiene 1,1,1-trichloroethane Isophorone Hexachloroethane Naphthalene 1,1-dichloroethane Nitrobenzene 1,1,2-trichloroethane 2-nitrophenol 1,1,2,2-tetrachloroethane 4-nitrophenol Chloroethane 2,4-dinitrophenol Bis(2-chloroethyl)ether 4,6-dinitro-o-cresol 2-chloroethyl vinyl ether(mixed) N-nitrosodimethylamine 2-chloronaphthalene N-nitrosodiphenylamine 2,4,6-trichlorophenol N-nitrosodi-n-propylamine Parachlorometa cresol Pentachlorophenol Chloroform (trichloromethane) Phenol 2-chlorophenol Bis(2-ethylhexyl)phthalate 1,2-dichlorobenzene Butyl benzyl phthalate 1,3-dichlorobenzene Di-n-butyl phthalate 1,4-dichlorobenzene Di-n-octyl phthalate 3,3-dichlorobenzidine Diethyl phthalate 1,1-dichloroethylene Dimethyl phthalate 1,2-trans-dichloroethylene 1,2-Benzanthracene 2,4-dichlorophenol Benzo(a)pyrene 1,2-dichloropropane 3,4-Benzofluoranthene 1,3-dichloropropylene 11,12-Benzofluoranthene 2,4-dimethylphenol Chrysene Acenaphthylene 2,4-dinitrotoluene 2,6-dinitrotoluene Anthracene 1,2-diphenylhydrazine 1,12-Benzoperylene Ethylbenzene Fluorene Fluoranthene Phenanthrene 4-chlorophenyl phenyl ether 1,2,5,6-Dibenzanthracene

[2] Continued

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Indeno(1,2,3-cd)pyrene
Pyrene
Toluene
Trichloroethylene
Vinyl chloride
Aldrin
Dieldrin
Chlordane (technical mixtures and metabolites)
4,4-DDT
4,4-DDE
Tetrachloroethylene
4,4-DDD
Alpha-endosulfan
Beta-endosulfan
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
(BHC-hexachlorocyclohexane)
     Alpha-BHC
     Beta-BHC
     Gamma-BHC
     Delta-BHC
(PCB-polychlorinated biphenyls)
     PCB-1242 (Arochlor 1242)
     PCB-1254 (Arochlor 1254)
     PCB-1221 (Arochlor 1221)
     PCB-1232 (Arochlor 1232)
     PCB-1248 (Arochlor 1248)
     PCB-1260 (Arochlor 1260)
     PCB-1016 (Arochlor 1016)
Toxaphene
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)
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PART 2 - MONITORING REQUIREMENTS

A. The permittee shall monitor Sampling Point 01 for the following parameters, at the indicated frequency and by the indicated sample type:

<u>Constituents</u> Flow	<u>Units</u> GPD	Measurement Frequency	Sample <u>Type</u> Report
Arsenic	mg/l	once/6 mo. [1]	Grab or Composite [2]
Cadmium	mg/l	once/6 mo. [1]	Composite
Copper	mg/l	once/6 mo. [1]	Grab or Composite [2]
Chromium(Total)	mg/l	once/6 mo. [1]	Grab or Composite [2]
Cyanide(Free)	mg/l	once/6 mo. [1]	Grab
Cyanide(Total)	mg/l	once/6 mo. [1]	Grab
Nickel	mg/l	once/6 mo. [1]	Grab or Composite [2]
Lead	mg/l	once/6 mo. [1]	Composite
Zinc	mg/l	once/6 mo. [1]	Grab or Composite [2]
Silver	mg/l	once/6 mo. [1]	Grab or Composite [2]
pH [3]	s.u.	once/6 mo. [1]	Grab
Dissolved Sulfides	mg/l	once/6 mo. [1]	Grab
Dispersed Oil & Grease	mg/l	once/6 mo. [1]	Grab
Chlorides [4]	mg/l	once/6 mo. [1]	Grab or Composite
TTO	mg/l	once/6 mo. [1]	Grab

FOOTNOTES TO MONITORING REQUIREMENTS

- [1] The sample shall be taken on a day when these substances are likely to be present in their maximum concentration.
- [2] The Local limits can be compared to the results from grab sampling as well as composite sampling.
- [3] The pH of the wastewater discharge to the sewer system shall be monitored and recorded continuously using a pH meter and recorder.
- [4] The City is establishing a data base for chlorides.

B. The permittee shall satisfy the Total Toxic Organics (TTO) requirement in accordance with the following:

MONITORING

- 1) The IU <u>must</u> prepare an inventory of all toxic organics used and identify the individual toxic organics, listed on pages 4 and 5 of this permit, which can reasonably be expected to be present in the regulated wastewater.
- 2) The IU is then required to analyze only those toxic organic pollutants which would reasonably be expected to be present.
- The inventory and TTO analysis shall be submitted to the City of Los Angeles in accordance with the reporting schedule indicated in Part 3 of this permit. The City may require the IU to support the TTO inventory list with appropriate documentation.

TOXIC ORGANIC MANAGEMENT PLAN

- In lieu of monitoring for TTO and upon written request, the City of Los Angeles may allow the IU to satisfy the TTO requirement by submitting a toxic organic management plan (TOMP) for approval by the City of Los Angeles.
- C. Monitoring and sampling shall be carried out during a period of normal operations.
- D. All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with 40 CFR Part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit. The handling, storage and analyses of all samples taken for the determination of the wastewater characteristics discharged shall be performed by laboratories certified by the State of California or approved by the Board of Public Works of the City of Los Angeles.

PART 3 - REPORTING REQUIREMENTS

A. <u>Self-Monitoring</u>

The permittee shall implement a self-monitoring program. Monitoring results obtained shall be summarized and reported on a periodic compliance report form and submitted by the 15th day of the month following the monitoring period. The reporting schedule is summarized as follows according to the industrial discharge in gallons per day (GPD):

Industrial	Monitoring	Report
<u>Discharge</u>	<u>Period</u>	<u>Due Date</u>
9,999 GPD or less	Jan 1 - Jun 30 Jul 1 - Dec 31	Jul 15 Jan 15

The report shall indicate the nature and concentration of all pollutants in the effluent for which sampling and analyses were performed including measured or estimated maximum and average daily flows. The report shall be based upon data obtained through appropriate sampling and analyses performed during the period covered by the report. The data shall be representative of conditions occurring during the reporting period.

B. If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR 136 or amendments thereto or otherwise approved by EPA or specified in this permit, the results of such monitoring shall be reported in the compliance report and submitted to the Director.

C. Automatic Resampling

If the results of the permittee's wastewater analysis indicates a violation has occurred, the permittee must do the following:

- 1. Inform the Director of the violation within 24 hours by contacting the Bureau of Sanitation Enforcement Division S.I.U. Section at (213) 485-5874; and
- Repeat the sampling and pollutant analysis and submit, in writing, the results of this second analysis within 30 days after becoming aware of the violation.

D. Pre-notification of Monitoring and Sampling

The permittee shall notify the Director by telephone at (213) 485-5874 at least 48 hours in advance of any monitoring or sampling to be done. Notification shall include the date, time and location of proposed monitoring or sampling. Monitoring and sampling shall be carried out during a period of normal operations. Prior to the commencement of any sampling or monitoring, the Director may request that the permittee furnish to the Director a split sample and all supporting data (i.e., methodology, flow measuring data, strip chart recordings and other pertinent information). The Director reserves the right to refuse any data developed from the monitoring or sampling activity if the permittee fails to comply with the pre-notification procedure.

E. Slug/Accidental Discharge Notification

The permittee shall notify the Director immediately upon the occurrence of an accidental discharge of substances prohibited by L.A.M.C. Section 64.30 or any slug loads or spills that may enter the public sewer. The Director shall be notified by telephone at (213) 485-5886. The notification shall include location of discharge, date and time thereof, type of waste, including concentration and volume, and corrective action taken. The permittee's notification of accidental cases in accordance with this section does not relieve it of other reporting requirements that arise under Local, State or Federal laws.

Within five (5) days following an accidental discharge, the permittee shall submit to the Director a detailed written report. The report shall contain the following:

- 1. A description and cause of the slug or accidental discharge, the cause(s) thereof and the impact on the permittee's compliance status. The description should also include the location of discharge and the type, concentration and volume of waste.
- 2. The duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur.
- 3. All steps taken or to be taken to reduce, eliminate and prevent recurrence of such a slug discharge, accidental discharge or any other conditions of noncompliance.

F. Operating Upsets

Any permittee that experiences an upset in operations that places the permittee in a temporary state of noncompliance with the provisions of either this permit or with L.A.M.C. Section 64.30 shall inform the Director immediately upon the first awareness of the commencement of the upset at (213) 485-5886.

A written follow-up report of the upset shall be filed by the permittee with the Director within five (5) days. The report shall contain the following information:

- a) A description of the upset or slug load, the cause(s) thereof and the upset's or slug load's impact on the permittee's compliance status;
- b) The duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur; and
- c) All steps taken or to be taken to reduce, eliminate and prevent recurrence of such an upset, slug load or other conditions of noncompliance.

The report must also demonstrate that the treatment facility was being operated in a prudent and workmanlike manner.

A documented and verified operating upset shall be an affirmative defense to any enforcement action brought against the permittee for violations attributable to the upset event.

G. Prevention of Spills and Accidental Discharges

- 1. The permittee shall provide to the City of Los Angeles plans showing facilities and operating procedures in order to provide protection against spills or accidental discharges of prohibited or regulated materials as established by this permit. Such plans shall include, but are not limited to the following:
 - a) Diking systems for containment;
 - b) Alarm systems including test frequency of alarms;
 - c) Employee education programs; and
 - d) Manhole sealing and repiping.

- 2. The permittee shall provide the spill prevention and accidental discharge control plans showing facilities and operating procedures to the City of Los Angeles for review within 30 days of the effective date of the permit.
- 3. Plans shall be reviewed and approved by the City of Los Angeles prior to construction of any facilities. However, approval of this plan by the City of Los Angeles does not relieve the permittee from its requirements to meet all applicable Local, State and Federal laws and regulations.

H. Notification of Hazardous Waste Discharged into the POTW

- 1. Permittees not exempt from the requirements under 40 CFR 403.12(p) shall notify the City of Los Angeles, Bureau of Sanitation; the EPA Region 9, Hazardous Waste Management Division; and the California State Department of Health Services, Toxic Substances Control Division in writing of any discharge into the City of Los Angeles sewer system of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. The written notification shall be submitted to the City of Los Angeles Bureau of Sanitation, the EPA Region 9 and the California State Department of Health Services.
- I. All reports required by this permit shall be submitted to the Director at the following address:

City of Los Angeles Bureau of Sanitation 4600 Colorado Blvd. M/S 911 Los Angeles, CA 90039 Attn: EPA Reporting

PART 4 - SPECIAL CONDITIONS

Not Applicable

PART 5 - STANDARD CONDITIONS

SECTION A. DEFINITIONS AND CONDITIONS

1. Definitions

- a) <u>Bi-Weekly</u> Once every other week.
- b) <u>Bi-Monthly</u> Once every other month.
- c) <u>Bypass</u> The intentional diversion of wastes from any portion of a treatment facility.
- d) <u>Categorical Pretreatment Standards</u> Limitations on pollutant discharges to POTWs, promulgated by EPA in accordance with Section 307 of the Clean Water Act, that apply to specified process wastewaters of particular industrial categories.
- e) <u>Composite Sample</u> A sample that is collected over time, formed either by continuous sampling or by mixing discrete samples. The sample may be composited either as a <u>flow proportional composite sample</u> (collected either as a constant sample volume at time intervals proportional to stream flow or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between the aliquot) or as a <u>time composite sample</u> (composed of discrete sample aliquot collected in one container at constant time interval's providing representative samples irrespective of stream flow).

f) <u>Cooling Water</u>

- (1) Uncontaminated Water used only for cooling purposes which has no direct contact with any raw material, intermediate or final product and which does not contain a level of contaminants detectably higher than that of the intake water.
- (2) Contaminated Water used only for cooling purposes which may become contaminated either through the use of water treatment chemicals used for corrosion inhibitors or biocides or by direct contact with process materials and/or wastewater.

- g) <u>Daily Maximum</u> The maximum allowable discharge of a pollutant during a calendar day. Where daily maximum limitations are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limitations are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.
 - h) Four (4) Day Average The maximum allowable value for the average of 4 consecutive sampling days.
 - i) <u>Director</u> The Director of the Bureau of Sanitation of the Department of Public Works of the City of Los Angeles or the duly authorized representative thereof.
 - j) <u>Grab Sample</u> An individual sample collected in less than 15 minutes, without regard for flow or time.
 - k) <u>Industrial Wastewater (Industrial Waste)</u> Any water bearing waste excluding domestic wastewater.
 - 1) <u>Instantaneous Maximum</u> The allowable maximum concentration determined from the analysis of <u>any</u> discrete or composited sample collected, independent of the industrial flow rate and the duration of the sampling event.
 - m) <u>Interference</u> A discharge which alone or in conjunction with a discharge or discharges from other sources both:
 - 1) Inhibits or disrupts the POTW, its treatment processes or operations or its sludge processes, use or disposal; and
 - 2) Causes a violation of any requirement of the POTW's permit (including an increase in magnitude or duration of a violation) or prevents the use of disposal of sewage sludge. The following statutory provisions and regulations or permits issued thereunder apply (or more stringent State or Local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA) and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act and the Marine Protection, Research and Sanctuaries Act.

- n) <u>Monthly Average</u> The maximum allowable value for the average of all observations obtained during one calendar month.
- o) Pass Through A discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, cause a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).
- p) Publicly Owned Treatment Works (POTW) A treatment works as defined by Section 212 of the Clean Water Act which is owned by the State or municipality. This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW treatment plant.
- q) Resource Conservation and Recovery Act (RCRA) A Federal statute regulating the management of hazardous waste from its generation through ultimate disposal. The Act contains requirements for waste generators, transporters and owners and operators of treatment, storage and disposal facilities.
- r) Slug Load Any pollutant (including Biochemical Oxygen Demand) released in a discharge at a flow rate or concentration which will cause a violation of the specific discharge prohibitions in 40 CFR 403.5(b) to 403.12(f).
- s) Total Toxic Organics (TTO) The sum of the masses or concentrations of the specific toxic organic compounds regulated by specific categorical pretreatment regulations which is found in the discharge at specific quantifiable concentrations.
- t) <u>Upset</u> An exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee, excluding such factors as operational error, improperly designed or inadequate treatment facilities or improper operation and maintenance or lack thereof.

2. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

3. Duty to Comply

The permittee must comply with the provisions of L.A.M.C. 64.30 and all conditions of this permit. Failure to comply with the requirements of this permit may be grounds for administrative action or enforcement proceedings, including civil or criminal penalties, injunctive relief and summary abatements.

4. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact to the public treatment plant or the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Modification or Revision of the Permit

This permit may be modified, revoked and reissued or terminated for good causes including, but not limited to, the following:

- a) The incorporation of any new or revised Federal, State or Local pretreatment standards or requirements;
- b) Material or substantial alterations or additions to the discharger's operational processes or discharge volume or character which were not covered in the effective permit;
- c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- d) Information indicating that the permitted discharge poses a threat to the City of Los Angeles' collection and treatment systems, POTW personnel or the receiving waters;
- e) A violation of any terms or conditions of this permit;
- f) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- g) A revision of or a grant of variance from such categorical standards pursuant to 40 CFR 403.13.
- h) A request of the permittee, provided such request does not create a violation of any existing applicable requirements, standards, laws or rules and regulations; or
- i) A correction of typographical or other errors in the permit.

6. Property Rights

The issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor does it authorize any violation of Federal, State or Local laws or regulations.

7. Limitation of Permit Transfer

An Industrial Wastewater Permit shall not be transferable by operation of law or otherwise, either from one location to another or from one person to another. Statutory mergers or name changes shall not constitute a transfer or a change in ownership.

8. Dilution

The permittee shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

9. General Prohibitive Standards

The permittee shall comply with all the general prohibitive discharge standards in the General Pretreatment Regulations, 40 CFR 403, and the L.A.M.C. Section 64.30. Except as expressly allowed in this Industrial Wastewater Permit, the industrial user shall not discharge wastewater to the POTW, the storm drain system or Waters of the State which contains any of the following:

- a) Gasoline, mercury, total identifiable chlorinated hydrocarbons, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, solvents, pesticides or jet fuel;
- b) Petroleum Oil, nonbiodegradable cutting oil or products of mineral oil origin in amounts that will cause interference or pass through.
- c) Liquids, solids or gases which by reason of their nature or quantity are flammable, reactive, explosive, corrosive or radioactive or by interaction with other materials could result in fire, explosion or injury. This includes, but is not limited to, wastestreams with a closed cup flash point of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21.

- d) Solid or viscous materials which could cause obstruction to the flow or operation of the POTW or the storm drain system;
- e) Toxic pollutants in sufficient quantity to injure or interfere with any wastewater treatment process, to constitute a hazard or cause injury to human, animal, plant or fish life or to exceed any limitation set forth in this Section;
- f) Noxious or malodorous liquids, gases or solids in sufficient quantity, either singly or by interaction with other materials, to create a public nuisance, hazard to life or to prevent entry of any person to the POTW or storm drain system;
- g) Pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems;
- h) Material of sufficient quantity to interfere with any POTW treatment plant process or to render any product thereof unsuitable for reclamation and reuse;
- i) Material of sufficient quantity to cause the POTW to be in noncompliance with sludge use or disposal criteria, guidelines or regulations in connection with Section 405 of the Act, the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act, the Marine Protection, Research, and Sanctuaries Act or State criteria applicable to the sludge management method being used;
- j) Material which will cause the POTW to violate its NPDES Permit, applicable Federal and/or State statutes, rules or regulations;
- k) Pigment which is not removed in the treatment processes;
- 1) A heat content in such quantities that the temperature of the wastewater at the introduction into the POTW collection system exceeds 140 degrees Fahrenheit or at the introduction into the POTW treatment plant exceeds 104 degrees Fahrenheit. In no event shall any wastewater having a temperature in excess of 100 degrees Fahrenheit be discharged to the storm system or to the Waters of the State;
- m) Pollutants, including oxygen demanding pollutants, released at a flow rate or pollutant concentration which will cause or contribute to interference;
- n) Storm water collected and discharged to the POTW;
- o) Single pass cooling water in excess of 200 gallons per day discharged to the POTW;

- p) Materials which constitute a hazard or causes injury to human, animal, plant or fish life or creates a public nuisance;
- q) Recognizable portions of the human or animal anatomy;
- r) Floatable material which is readily removable;
- s) More than 600 mg/l of total dispersed oil and grease;
- t) More than 0.1 mg/l of dissolved sulfides;
- a pH lower than 5.5 or higher than 11.0 or having any other corrosive property capable of causing damage or hazards to structures, equipment or personnel of the sewer system;
- v) Medical or infectious wastes;
- w) Radioactive wastes or isotopes;
- x) Garbage, food, market wastes or food plant wastes that have not been ground by household type or other suitable garbage grinders;
- y) Sharps; or
- z) Any trucked or hauled pollutants, except at discharge points designated by the City.

10. <u>Compliance with Applicable Pretreatment Standards and Requirements</u>

The permittee shall comply at all times with any and all applicable Local, State and Federal pretreatment standards and requirements including any such standards or requirements that may become effective during the term of this permit.

11. Confidentiality

(a) Any information, except for discharge and effluent data, submitted to the City pursuant to this Section may be claimed by the discharger to be confidential. Any such claim must be asserted at the time of submission of the information or data to the City. The claim may be asserted by stamping the words "Confidential Business Information" on each page containing such information or by other means; however, if no claim is asserted at the time of submission, the City may make the information available to the public without further notice. If such a claim is asserted, the information will be treated in accordance with the procedures set forth in 40 CFR Part 2 (Public Information).

(b) Information and data provided to the City which is effluent data shall be available to the public without restriction.

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems for treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes but is not limited to effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

2. Duty to Halt or Reduce Activity

Upon reduction of efficiency of operation or loss or failure of all or part of the pretreatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control its production or discharge (or both) until operation of the pretreatment facility is restored or an alternative method of pretreatment is provided. This requirement applies, for example, when the primary source of power of the pretreatment facility fails or is reduced. It shall not be a defense for a permittee in an enforcement action to state that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. Removed Substances

Solids, sludge, filter backwash or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in accordance with section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

4. Bypass of Treatment Facilities

- a) Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury or severe property damage or no feasible alternatives exist.
- b) The permittee may allow bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation.

c) Notification of bypass:

- (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass, to the City of Los Angeles.
- (2) Unanticipated bypass. The permittee shall immediately notify the City of Los Angeles and submit a written notice to the POTW within 5 days. This report shall specify the following:
 - A description of the bypass including its cause and duration;
 - ii) Whether the bypass has been corrected; and
 - iii) The steps being taken or to be taken to reduce, eliminate and prevent a reoccurrence of the bypass.

SECTION C. MONITORING AND RECORDS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit. All equipment used for sampling and analysis must be routinely calibrated, inspected and maintained to ensure their accuracy. Monitoring points shall not be changed without notification to and approval by the Director.

2. Flow Measurements

If flow measurement is required by this permit, the appropriate flow measurement devices and methods consistent with approved scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharge. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10 percent from true discharge rates throughout the range of expected discharge volumes.

3. Analytical Methods to Demonstrate Continued Compliance

All sampling and analysis required by this permit shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto, otherwise approved by EPA, or as specified in this permit.

4. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit using test procedures identified in Section C.3, the results of this monitoring shall be included in the permittee's self-monitoring reports.

5. <u>Inspection and Entry</u>

The permittee shall allow the Director or an authorized representative upon the presentation of credentials and other documents as may be required by law to do the following:

- a) Enter the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
- b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit;
- d) Sample or monitor, for the purposes of assuring permit compliance, any substances or parameters at any location; and
- e) Inspect any production, manufacturing, fabricating or storage area where pollutants, regulated under the permit, could originate, be stored or be discharged to the sewer system.

The applicant, by accepting any permit issued, does hereby consent and agree to entry upon the premises as described herein. Any person violating this authority shall be guilty of a misdemeanor.

6. Retention of Records

a) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the City of Los Angeles at any time.

b) All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the City of Los Angeles shall be retained and preserved by the permittee until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

7. Record Contents

Records of sampling and analyses shall include the following:

- a) The date, exact place, time and methods of sampling or measurement, and sample preservation techniques or procedures;
- b) Who performed the sampling or measurements;
- c) The date(s) analyses were performed;
- d) Who performed the analyses;
- e) The analytical techniques or methods used; and
- f) The results of such analyses.

8. Falsifying Information

No person shall knowingly make any false statement, representation or certification in any application, record, report, plan or other document filed with the City of Los Angeles. In addition, no person shall tamper with or knowingly render inaccurate any monitoring device required under this permit.

The reports and other documents required to be submitted or maintained under this Industrial Wastewater Permit shall be subject to:

- (1) The provisions of 18 U.S.C. Section 1001 relating to fraud and false statements;
- (2) The provisions of Section 309 (c) (4) of the Clean Water Act (CWA), as amended, governing false statements, representation or certification; and
- (3) The provisions of Section 309 (c) (6) of the Clean Water Act (CWA), as amended, regarding responsible corporate officers.

SECTION D. ADDITIONAL REPORTING REQUIREMENTS

1. Planned Changes

The permittee shall give notice to the Director 90 days prior to any facility expansion, production increase or process modifications which results in new or substantially increased discharge or a change in the nature of pollutants in the discharge, including the listed or characteristic hazardous wastes for which the Industrial User had submitted initial notification under 40 CFR 403.12(p). The City may require that a new application be filed and a new permit obtained before any planned changes take place.

2. Duty to Provide Information

The permittee shall furnish to the Director any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing or terminating this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

3. Signatory Requirements

All applications, reports or information submitted to the Director must contain the following certification statement and be signed as required in Sections (a), (b), (c), or (d) below:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- a) By a responsible corporate officer if the industrial user submitting the reports is a corporation. For the purpose of this paragraph, a responsible corporate officer means the following:
 - (i) A president, secretary, treasurer or vice-president of the corporation in charge of a principal business function or any other person who performs similar policy or decision making functions for the corporation; or

- (ii) The manager of one or more manufacturing, production or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in secondguarter 1980 dollars) if authority to documents has been assigned or delegated to the manager in accordance with corporate procedures.
- b) By a general partner or proprietor if the industrial user submitting the reports is a partnership or sole proprietorship respectively.
- c) By a duly authorized representative of the individual designated in paragraph (a) or (b) of this section if:
 - (i) The authorization is made in writing by the individual described in paragraph (a) or (b);
 - (ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the industrial discharge originates, such as the position of plant manager, operator of a well, or a well field superintendent, or a position of equivalent responsibility, or a position having overall responsibility for environmental matters for the company; and
 - (iii) The written authorization is submitted to the City.
- d) If an authorization under paragraph (c) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for the environmental matters of the company, a new authorization satisfying the requirements of paragraph (c) of this section must be submitted to the City prior to or together with any reports to be signed by an authorized representative.

4. Annual Publication

A list of all industries which were subject to enforcement proceedings during the twelve (12) previous months shall be annually published by the Director in the largest daily newspaper within its service area. Accordingly, the permittee is apprised that noncompliance with this permit may lead to an enforcement action and may result in publication of its name in an appropriate newspaper in accordance with this L.A.M.C. Section 64.30.

5. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil and/or criminal penalties for noncompliance under L.A.M.C. Section 64.30 or State or Federal laws and regulations.

6. Penalties for Violations of Permit Conditions

The L.A.M.C. Section 64.30 provides that any person who violates a permit condition is subject to a civil penalty in the maximum sum provided by law for each day in which such violation occurs. Any person who willfully or negligently violates permit conditions is subject to criminal penalties of up to \$1000.00 per violation per day and/or by imprisonment in the County Jail of a period of not more than six (6) months. The permittee may also be subject to sanctions under State and/or Federal law.

7. Recovery of Costs Incurred

In addition to civil and criminal liability, the permittee violating any of the provisions of this permit or the L.A.M.C Section 64.30 or causing damage to or otherwise inhibiting the City of Los Angeles wastewater disposal system shall be liable to the City of Los Angeles for any expense, loss or damage caused by such violation or discharge.

The City of Los Angeles shall bill the permittee for the costs incurred by the City for any cleaning, repair or replacement work caused by the violation or discharge. The permittee shall also be liable for the costs of monitoring and investigation by the City arising from any unlawful discharge. Refusal to pay the assessed costs shall constitute a separate violation of L.A.M.C. Section 64.30.

APPENDIX

FACT SHEET WITH SUPPORTING DOCUMENTATION

FACT SHEET

A. INDUSTRIAL USER INFORMATION

Hawker Pacific, Inc. (W-456607) Flight Accessory Services Division 11310 Sherman Way Sun Valley, CA 91352

Hazardous Waste/Process Supervisor: Erik Johnson (818) 765-6201

B. DESCRIPTION OF THE FACILITY OPERATIONS

Hawker Pacific, Inc., Flight Accessory Services Division is involved in machining, overhaul, assembly and surface treatment of aircraft landing gears and hydraulic system parts such as valves and hydraulic pistons. Surface treatment includes alkaline and acid cleaning, vapor degreasing, electroplating of cadmium, nickel and functional chrome, etching and chromating.

Ancillary operations include grinding, painting, baking of painted parts and testing of finished parts using a water-based dye.

The facility receives over 98% of parts from outside customers (commercial airlines, etc.) and renders the above services for a fee.

There is a very small casting process whereby lead anodes used in the electroplating process are cast into mold. The process is dry and casts on the order of 5 pounds of lead per week.

The site plan of the facility is shown in Attachment A. facility consists of five buildings. The Site Plan of each building is outlined in Attachments B-F. Building #1 contains the main offices and a fairly large machine shop. sewage is the only water discharged into the sewer. Lubricating oils associated with machining are collected and ultimately sold as bunker fuel. Building #2 contains the plating lines along with grinding operations. An assembly area and dye testing facility are located in Building #3. Sanitary sewage is discharged to a septic tank while the water used in dye testing is discharged to the sewer via a secured sampling box. A warehouse and some offices are located in Building #4. Sanitary sewage is discharged to a septic tank. Building #5 contains a small maintenance shop, offices and a small paint shop. The paint operations are dry, with associated dry scrubbers, and sanitary sewage is discharged to the sewer.

The plating line in Building #2 was built in 1968 under the ownership of Inchate Corporation. Hawker-Pacific, an

Australian-based firm specializing in defense contracts, purchased the facility in 1987. The only significant process construction in Building #2 has been the replacement of two (2) small nickel plating tanks with one (1) larger nickel plating tank. A new ion-exchange waste treatment system was added at the end of 1989 and is now becoming fully operational (October 4, 1990).

C. DESCRIPTION OF THE DISCHARGE AND WASTEWATER CONTROL

1. PROCESS WASTESTREAMS

Attachments G and GA show the plating shop layout and Attachment H lists the accompanying tank schedule. Process wastestream are generated from five main areas:

- 1. Nickel Plating Line
- 2. Cadmium Cyanide Plating Line
- 3. Chromating Line
- 4. Functional Chrome Plating and Alodine
- 5. Anode Cleaning and Etching

Chromating, Functional Chrome Plating and Alodine rinse waters are discharged to a collection sump where they are then conveyed to the pretreatment system.

Anode cleaning and etching rinsewaters are conveyed directly to the pretreatment system as are rinsewaters from the nickel and cadmium plating lines.

Attachments I-L show process flow diagrams for each production area. A total effluent flow of 1,500-2,000 gpd is listed on these Attachments. However, an October 4, 1990 inspection determined that the flow ranges from 2,000-6,000 gpd depending on production. This is verified by an inspection of water bills which indicates an average discharge of just over 7,000 gpd (accounting for two non-operating days per week) over the May, 1989 to May, 1990 time period.

The flow from each process line was not quantified.

2. DILUTION WASTESTREAMS

There are no dilution wastestreams present at this facility. Ion exchange backwash and boiler blowdown are pumped to an evaporator tank and do not enter the sewer system.

Hawker Pacific Fact Sheet Page 3 of 8

Single-pass cooling water from the vapor degreaser is used as make-up water for a running rinse tank.

3. WASTEWATER CONTROL

The pretreatment is automated and consists of cyanide destruction and ion exchange. A schematic of the system is outlined in Attachment M.

Cyanide bearing wastestreams are conveyed to holding drums (TO1-TO4) where cyanide is oxidized by alkaline chlorination through the addition of caustic and sodium hypochlorite.

T05-T18 consists of chemical treatment and associated storage for segregated wastestreams before they enter the ion exchange unit.

After cyanide destruction cadmium bearing wastestreams are chemically treated to an optimum pH before entering a specific anionic resin designed to selectively remove Trivalent chromium/lead, hexavalent the cadmium ion. chromium and nickel wastestreams are all segregated, chemically treated to an optimum pH and conveyed to respective resins to selectively remove the heavy metal Photo-sensitive detectors are installed on the ions. discharge end of the resin to detect breakthrough of the heavy metal. Backwash rates are still being quantified but, during the initial start-up phase, have ranged from twice a day to once every three weeks depending on factors such as type of heavy metal and rate of production. As stated earlier, this backwash water is pumped to an evaporator unit where the metals are concentrated before off-site disposal. The chemical storage units contain float alarms to signal lowering quantities of treatment chemicals. The contractor is training two employees in the operations of the system. After passing through the resins the wastestreams are combined, neutralized and discharged through a 5-stage clarifier/secured sampling box to the City sewer.

The facility has no established toxic organic management plan (TOMP).

D. DISCHARGE LIMITATIONS AND POINT OF COMPLIANCE

1. Hawker Pacific, Inc. Flight Accessory Services Division, must comply with the following federal pretreatment standards at Sampling Point 01 (secured sampling box located directly after 5-stage clarifier noted on Attachments GA and M).

Hawker Pacific Fact Sheet Page 4 of 8

FEDERAL CATEGORICAL PRETREATMENT STANDARDS FOR HAWKER PACIFIC INC. FLIGHT ACCESSORY SERVICES DIVISION (40 CFR 413 Existing Job Shop Electroplater < 10,000 gpd)

<u>Parameter</u>	<u>Units</u>	Daily <u>Maximum</u>	4-Day <u>Average</u>
Cadmium	mg/l	1.2	0.7
Cyanide (Free)	mg/l	5.0	2.7
Lead	mg/l	0.6	0.4
TTO	mg/l	4.57	

2. Hawker Pacific, Inc. Flight Accessory Services Division, must comply with the following local limits at Sampling Point 01 (secured sampling box located directly after 5-stage clarifier - noted on Attachments GA and M).

LOCAL DISCHARGE LIMITATION STANDARDS FOR HAWKER PACIFIC INC. FLIGHT ACCESSORY SERVICES DIVISION

Parameter	<u>Units</u>	Instantaneous <u>Maximum</u>
Arsenic	mg/1	3.0
Cadmium	mg/1	15.0
Copper	mg/1	15.0
Cyanide (Total)	mg/1	10.0
Cyanide (Free)	mg/1	2.0
Dissolved Sulfides	mg/1	0.1
Lead	mg/1	5.0
Nickel	mg/1	12.0
pH	s.u.	5.5 - 11.0
Silver	mg/1	5.0
Total Chromium	mg/l	10.0
Zinc	mg/1	25.0
Oil & Grease (Dispersed)	mg/1	600.0

E. RATIONALE FOR EFFLUENT LIMITATIONS

Hawker Pacific, Inc., Flight Accessory Services Division is involved in machining, overhaul, assembly and surface treatment of aircraft landing gears and hydraulic system parts such as valves and hydraulic pistons. Surface treatment includes alkaline and acid cleaning, vapor degreasing, electroplating of cadmium, nickel, and functional chrome, etching and chromating.

Hawker Pacific, Inc. Fact Sheet Page 5 of 8

The plating line was constructed in 1968. The replacement of two (2) small nickel plating tanks with one (1) larger tank has been the only significant process construction in the proceeding time period and does not satisfy new source criteria as listed in 40 CFR 403.3 K(1)(2)(3).

The facility receives over 98% of the parts undergoing electroplating from outside customers, primarily commercial airlines. Wastewater discharge varies from 2,000-6,000 gpd, depending on production. This is verified by an inspection of water bills for the May 1989 - May 1990 time period indicating an average discharge of 7,000 gpd (accounting for two non-operating days per week). There are no dilution wastestreams present at this facility.

Therefore, Hawker Pacific, Inc. Flight Accessory Services Division qualifies as an existing, non-integrated, job-shop electroplater subject to federal categorical pretreatment standards set in 40 CFR 413 Subparts A, E and F (Electroplating of Common Metals, Coating and Etching, respectively) for dischargers less than 10,000 gpd. Lead casting is not covered under 40 CFR 464 (Metal Casting and Molding) pretreatment standards. Although the process is covered under 40 CFR 461 (Battery Manufacturing), the facility is not subject to this category because it does not manufacture batteries. The lead casting process is, therefore, considered as unregulated.

Sampling Point 01 qualifies as an end of process location. Therefore, Sampling Point 01 will provide a representative sample to determine compliance with applicable federal pretreatment standards.

In addition to federal limitations, local limits must also be met by this facility. Sampling Point 01 qualifies as an end of pipe location. Therefore, local limits apply at this point.

F. MONITORING REQUIREMENTS

1. Hawker Pacific, Inc. Flight Accessory Services Division shall monitor Sampling Point 01 for the following parameters, at the indicated frequency and by the sample type:

Constituent	<u>Units</u>	Measurement Frequency	Sample Type
Flow	GPD	-	Report
Arsenic	mg/1	1/6 mo. [1]	Grab or Composite [2]
Cadmium	mg/1	1/6 mo. [1]	Composite
Chromium (Total)	mg/1	1/6 mo. [1]	Grab or Composite [2]
Copper	mg/1	1/6 mo. [1]	Grab or Composite [2]
Cyanide (Total)	mg/1	1/6 mo. [1]	Grab
Cyanide (Free)	mg/1	1/6 mo. [1]	Grab
Lead	mg/l	1/6 mo. [1]	Composite
pH [3]	s.u.	1/6 mo. [1]	Grab
Silver	mg/1	1/6 mo. [1]	Grab or Composite [2]
Zinc	mg/1	1/6 mo. [1]	Grab or Composite [2]
Dissolved Sulfides	mg/1	1/6 mo. [1]	Grab
Oil & Grease (Dispersed)	mg/1	1/6 mo. [1]	Grab
Total Toxic Organics (TTO)	mg/1	1/6 mo. [1]	Grab
Chlorides [4]	mg/1	1/6 mo. [1]	Composite

FOOTMOTES TO MONITORING REQUIREMENTS

- [1] A sampling frequency of 1/6 mo. corresponds to once every six months or biannually. Sampling should be conducted on a day that is representative of normal discharge.
- [2] Unlike federal categorical pretreatment standards, Local limits can be compared to the results from grab sampling as well as composite sampling.
- [3] The pH of the wastewater discharge to the sewer shall be monitored and recorded continuously using a pH meter and recorder.
- [4] Due to the concerns of meeting its NPDES permit conditions, the city of L.A. is in the process of establishing a data base for chlorides.

G. REPORTING REQUIREMENTS

Reporting requirements are in accordance with the provisions of the Los Angeles Municipal Code (L.A.M.C.) Section 64.30.

H. SPECIAL CONDITIONS

None Applicable

I. STANDARD CONDITIONS

Standard conditions are in accordance with the Los Angeles Municipal Code Section 64.30.

J. ATTACHMENTS

Attachment A - Site Plan

Attachment B - Site Plan (Building #1)

Attachment C - Site Plan (Building #2)

Attachment D - Site Plan (Building #3)

Attachment E - Site Plan (Building #4)

Attachment F - Site Plan (Building #5)

Attachment G - Plating Shop Lay-out

Attachment GA- Plating Shop Lay-out

Attachment H - Tank Schedule

Attachment I - Process Flow Diagram - Chrome Plating

Attachment J - Process Flow Diagram - Alodine

Attachment K - Process Flow Diagram - Nickel Plating

Attachment L - Process Flow Diagram - Cadmium Plating &

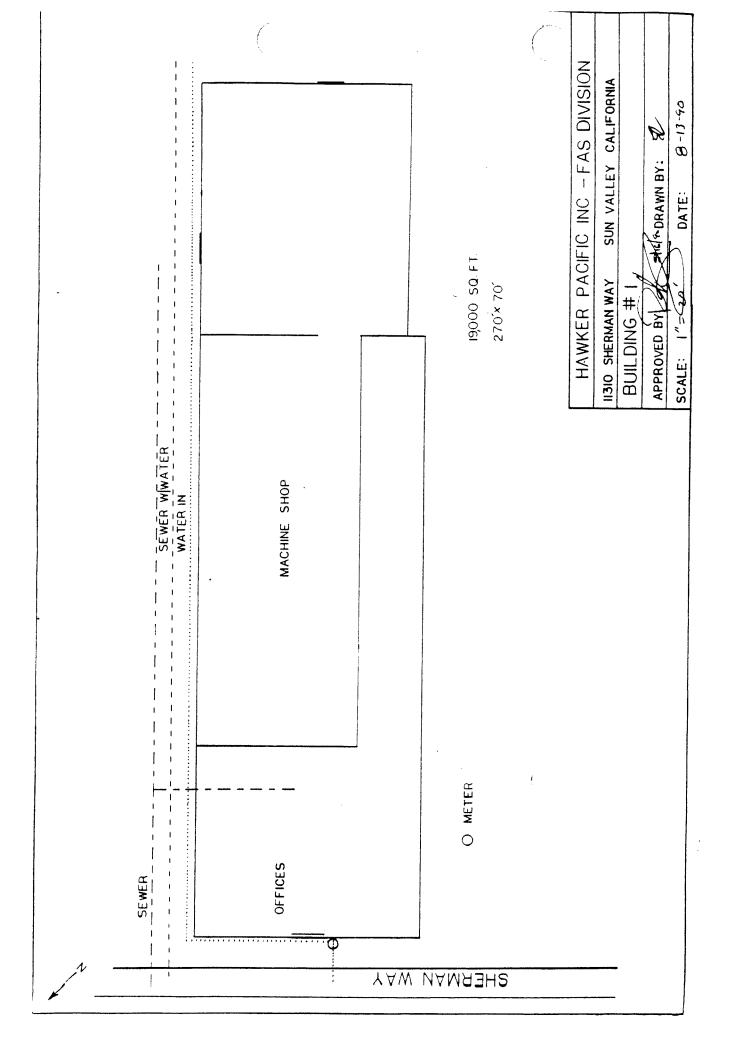
Chromating

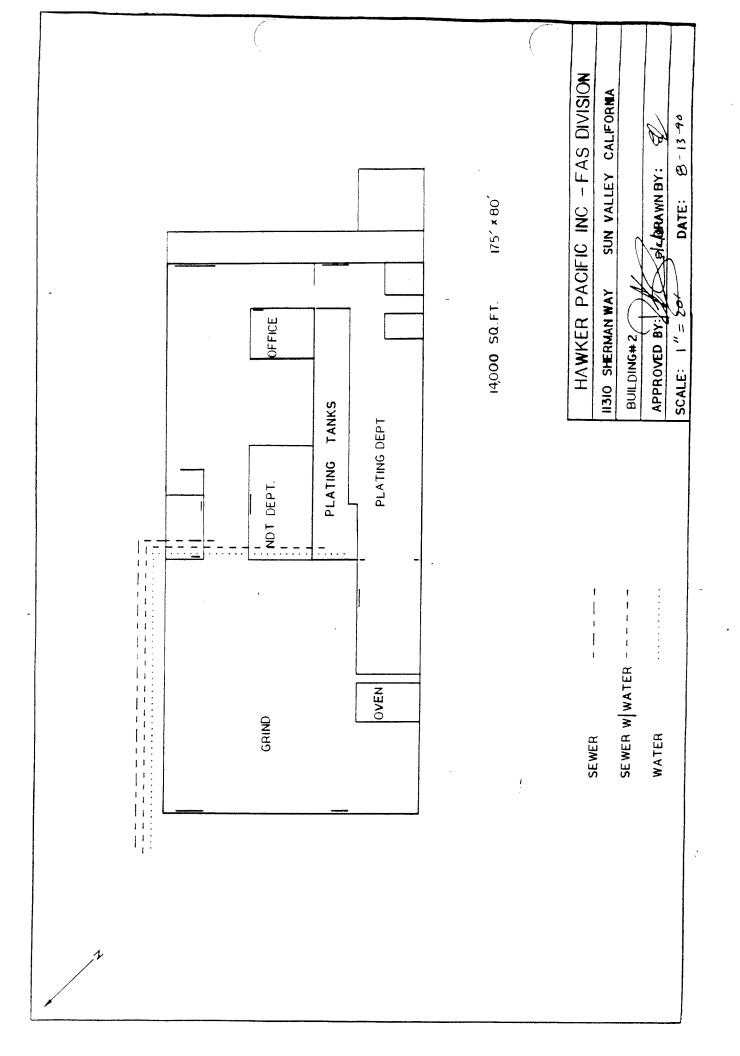
Attachment M - Pretreatment System Schematic

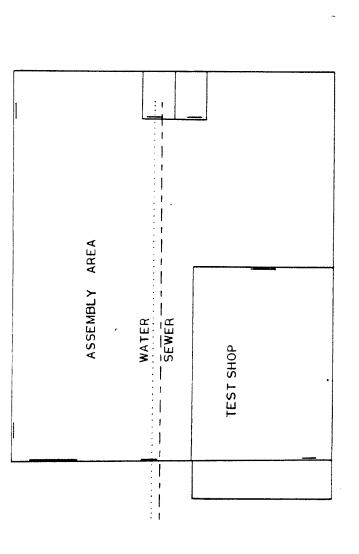
Hawker Pacific Fact Sheet Page 8 of 8

Inspected By:	Steven Pha	Date:	7.30-40
Prepared By:	Long Jones	Date:	10/25/90
Reviewed By:	Vladimis Jolngo	Date:	11/15/80

HAWFS/DJ/adm



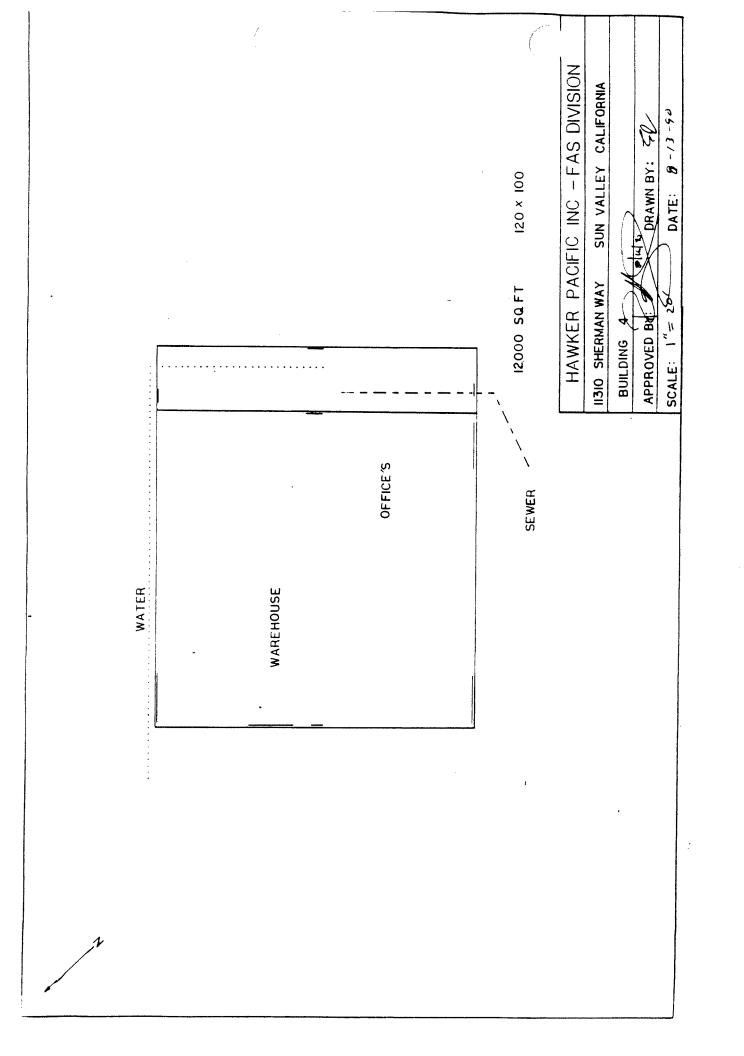




125'× 96' 12000 SQ FT. HAWKER PACIFIC INC - FAS DIVISION SUN VALLEY CALIFORNIA 18 11310 SHERMAN WAY BUILDING # 3

BY (WORAWN BY: APPROVED BY: SCALE: 1"= 26"

8-13-39 DATE:



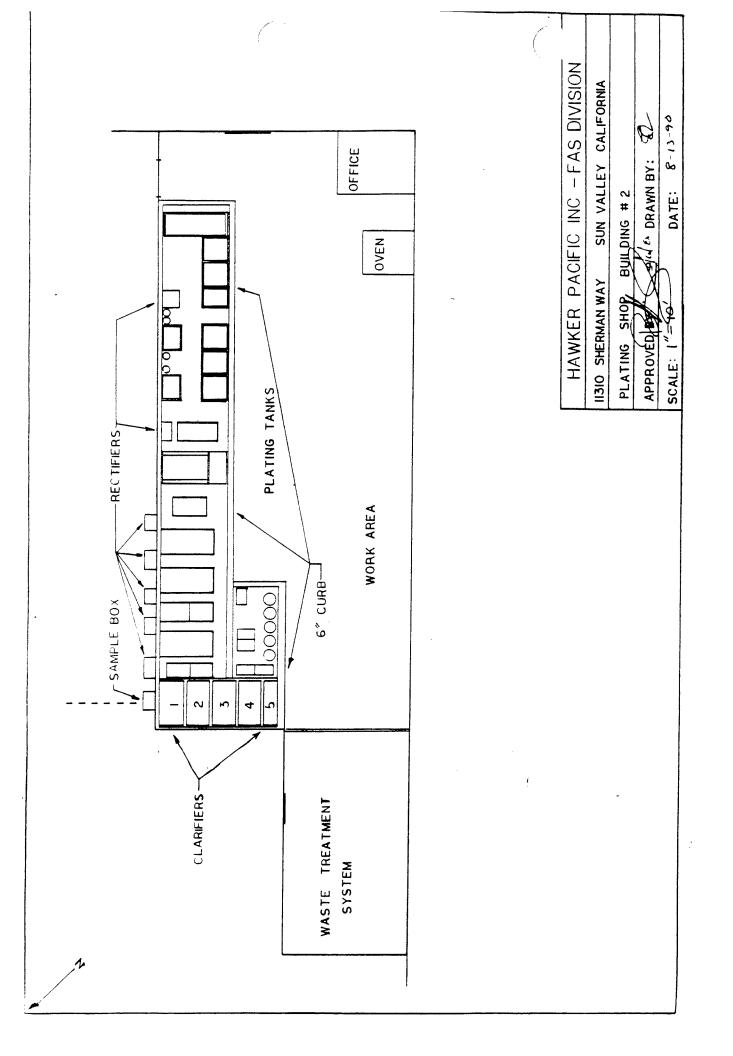
PAINT DEPT. PLANNING DEPT. - SEWER - -MAINTENANCE DEPT. MRB DEPT.

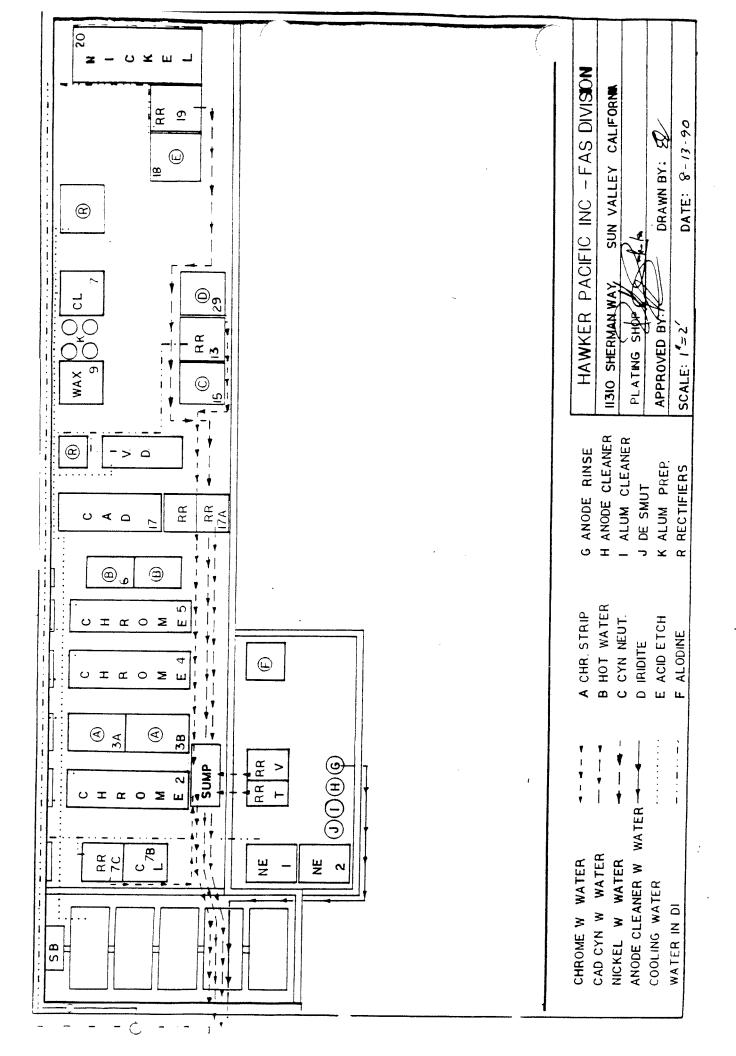
200'× 60'. 12,000 SQ FT.

HAWKER PACIFIC INC -FAS DIVISION SUN VALLEY CALIFORNIA FLI - DRAWN BY: 8 11310 SHERMAN WAY SCALE: 1" - 20' APPROVED AND BUILDING # 5

8-13-90

DATE:





FORM A: TANK SCHEDULE

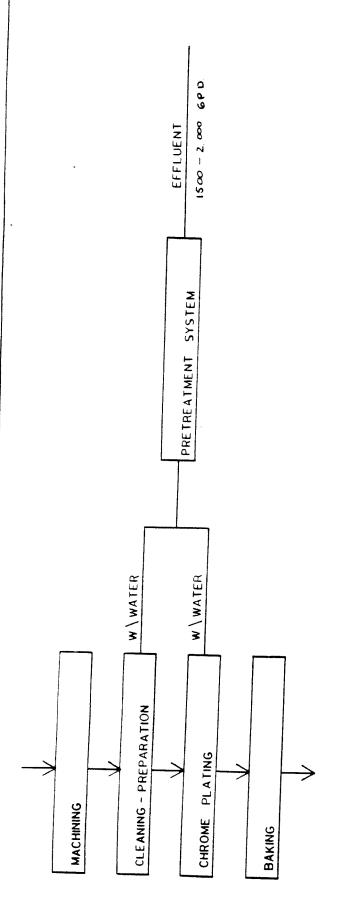
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	4	CHROME PLATING TANKS	3' 4 6' 4 8'	CHROMIC ACID & WATER	12)	yet	STEEL +
	3 ·A	CHROME STRIP TANK.	2' ¥ 2 ½' ¥ 7' 250 GAL.	SODIUM HYDROXIDE T. WATER	130	7 23	STEEL
	3-8	CHROME STRIP TANK	3'x3%' + 4' 300 GAL.	SODIUM HYDROXIDE +WATER	13,0	Yes	STEEL
	2	CHROME PLATING TANK	3' 76' 7 8'	CHROMIC ACID + WATER	1,0	yes	STEEL + LEAD.
	17·A	CAO RINJE TANK	4'4 6'4 4' 600 G AL.	WATER D.T.	7.0	Y e s	POLYPRO + STEEL
	7-13	CLEANER	2½×3′4₽ 4€0 6 AL.	SODIUM HYDROXIÓR + WATER	13.0	Yes	STEEL
1	7-c	CLEANER	2/2 ×3' +8'	DI.WATER	7.0	7 स	STREL.
2	IE-1	N ITAL ETCH TANK	24444 200 GAL	HCL 3 90 + WATER	4.0	۲۳	poly pro.
N	E-5	NITAL ETCH TANK	2 4444 2006AL	NITRIC PACID - L WATTER 2.76	4.0	765	POLY PRO,
F		ALODINE	34343 1506AL	CHROMIC AUD T WATER	+0	Yes	- (BERGLAS
	a 1	anoor Kinse Tauk	30" DIA X 36 H 80 GAL.	D. I. WHIRE 7	.0	Yes (20145ko.

FORM A: TANK SCHEDULE

						
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20	NICKEL PLATING TANK	300 K 8 1/2 L 48' DE E O 1500 C ALLON	NICKEL PLATING SOLUTION	4.0	Yes	POLY PRO + STEEL
19	NICKEL RINSE	3'W x 3'L x 8'BEEP 500 GALLON	D.I. WATER	74	Yes	FIBERGLASS
18	ETCH	3'W Y J'L Y 8' DEEP 500 GAL.	HF ACIO Sulfulk Mid	1.0	yes	POLY PRO + STEEL
29	IRIUITE TANK	3' x 3' x &'	CHRONIC ACID + WATER	4.0	Yes	FIBER GLASS + LINER
13	RINSE TANK	3'43'4 8' 500 GAL.	DI. WATER	70	Yes	FIDERGLASS
15	CHROMIC DIP TANK	3' x 3' x 8' 500 GALLON	CHROMIC ACIO + WATER	4:0	yes	FIBERGLASS + LINER
フ	OAKITE CLEANER	2次" × 3" × 8" 400 GAL	NAOH + WATER	13†	Yes	STEEL.
9	MAX TANK	400 GALL 2/2×3'×8'	BROWN WAX HEATED	70	Yes	STEEL
17	CHDMIUM CYANIDE TANK	900 GAL.	CHANIOIS CHOMIUN SOCILION	130	Yes	STEEL.
.6	HOT WATER	1400 GALLON	HOTWATER	7,0	yes	STEEL.
5	CHROME PLATING TANK		CHROMIC NCIO + WATER.	1.0		STEEL † Leau.

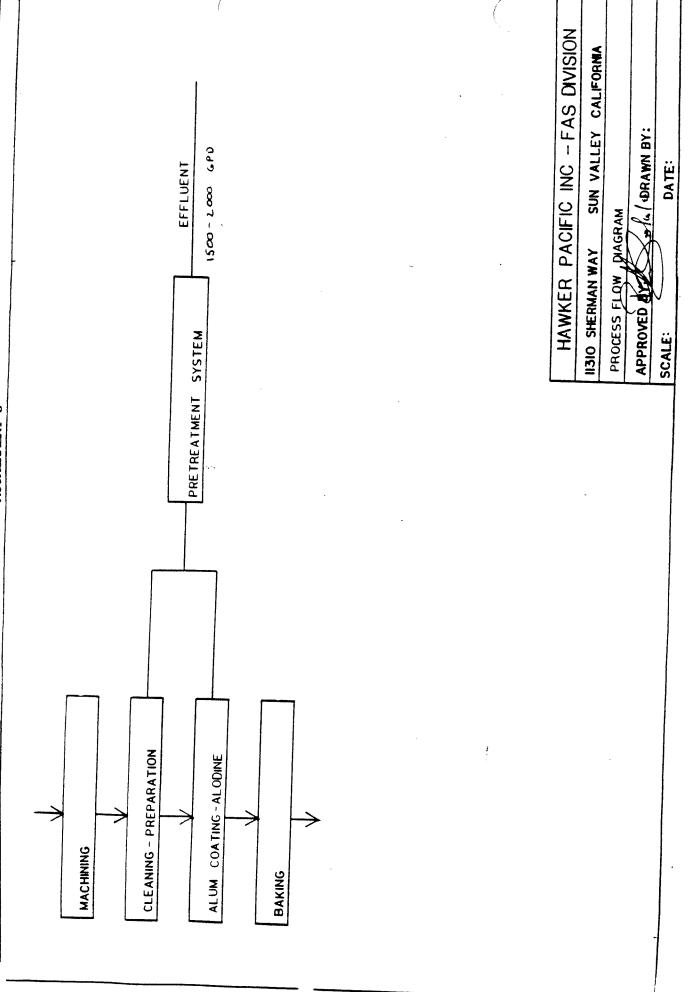
FORM A: TANK SCHEDULE

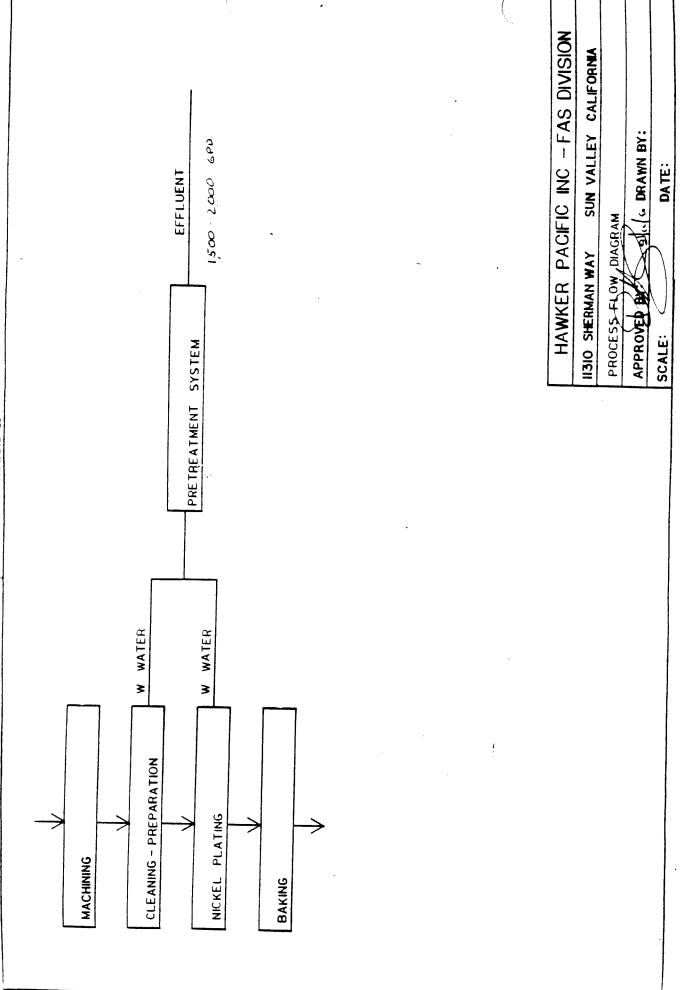
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+	Н	ANOD E CLEANER	30"DIA X71"	SODIUM HYDROXIDE + WATER	130	Yes	POLY PKG
	l	DESMUT	304 × 36" 80 6AL	CHROMIC ACID + NITHICACID	2.0	Yes	POLY PRO
	J	ALUMINUN CLEANER	30" 4 36" 80 GAL	HADKOAIDIE 80010W	13.0	Yes	poly pro
	K	ALUMINUN CLEANER 4 TANKS	30"Y 36" 806 AL	NITEIC ACID + WATER	1.0	Yes	POLY PRO
		-		NITRIC ACID + WATER	1.0	Yes	born bro
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			(C	ZINCATE	13.70	7 23	bord bus
	Τ	CHROME RINSE	2' X 4' X 4' 200 GAL	WATER		Yes	poly pro
	٧	CHROME RINSE	2'44' 44' 200 GAL	WATER		yes	POLY PRO

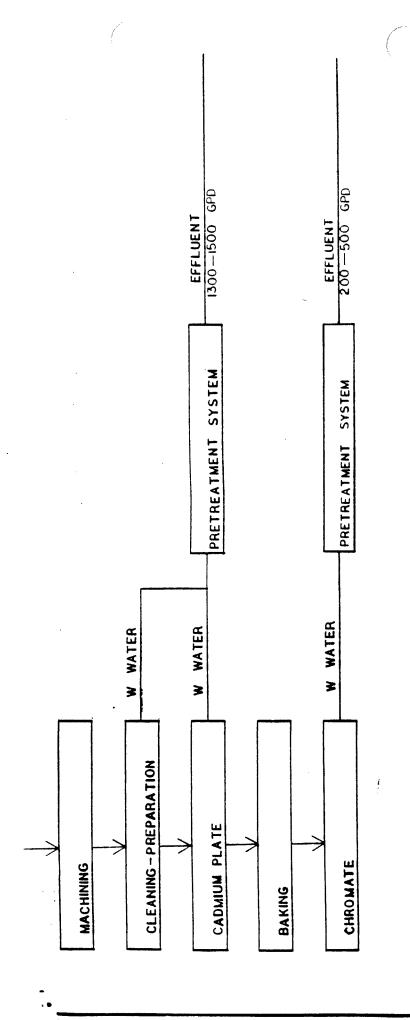


HAWKER PACIFIC INC - FAS DIVISION SUN VALLEY CALIFORMA SOLL - DRAWN BY: PROCESS FLOW DIAGRAM 11310 SHERMAN WAY APPROVED BY SCALE:

DATE:







HAWKER PACIFIC INC - FAS DIVISION
11310 SHERMAN WAY SUN VALLEY CALFORMA
PROCESS FLOW DIAGRAM
APPROVED BY: DRAWN BY: EKJ

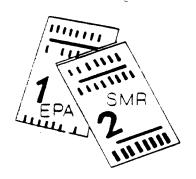
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Drv Control

CITY of LOS ANGELES

EPA Categorical Industrial User



SELF-MONITORING INSTRUCTIONS & REQUIREMENTS



For Facilities Designated

40 CFR 413
ELECTROPLATER

' 10,000 gpd
NON-INTEGRATED w/
CONTINUOUS DISCHARGE

MONITORING AND REPORTING PREGUENCY [40 CFR 403.12(e)]

The Industrial User must implement a Self-Monitoring program. Monitoring results obtained must be summarized and reported on a periodic compliance report form and submitted by the 15th day of the month following the monitoring period. The reporting schedule summarized below is applicable only to categorical Industrial Users which are subject to 40 CFR 413 and which have a daily discharge flow less than 10,000 gpd.

SEMI-ANNUAL MONITORING AND REPORTING FREQUENCY

Monitoring Period

Report Due Date

January February March April May June

July 15

July August September October November December

January 15

CONTROL ADJECTIVE CONTROLS

Industrial Users within the City of Los Angeles may contact the Control Authority to obtain further information regarding the following subjects at the following address and phone numbers.

Self-Monitoring Reporting

All periodic Compliance self-monitoring reports required by the Control Authority must be submitted to the Control Authority at the following address:

City of Los Angeles
Bureau of Sanitation
Enforcement Division, Mail Stop 911
4600 Colorado Blvd.
Los Angeles, CA 90039
Attn: EPA Reporting

EPA Pretreatment Program and Self-Monitoring Requirements

Prenotification of Self-Monitoring sampling.

Inspection Administration

Waste Minimization and Source Control

Toxic Organic Management Plan (TOMP)

Significant Industrial User Inspection Section

City-Wide Inspection Section	(213)	485-5874	
Self-Monitoring procedures.			•
Self-Monitoring Review Section	(213)	237-0806	
Self-Monitoring violations.			
Significant Industrial User Inspection Section Self-Monitoring Review Section		485 - 5874 237 - 0806	•
Discharge Standards.	(555)	237 0000	
Permitting Section Enforcement Section EPA Reporting Section	(213)	237-0806 485-7580 237-0806	
Industrial User Category.			
Permitting Section EPA Reporting Section		237-0806 237-0806	
Control Authority Sampling and Inspection Operation processes)	.ons	(procedures	and

(213) 485-5886

(213) 485-5874

(213) 237-0806

SELF-MONITORING REQUIREMENTS (-nt.)

For additional guidance regarding Local, State and Federal regulations and procedures contact one or more of the following:

Self-Monitoring Review	(213)	237-0802
EPA Reporting Section	(213)	237-0806
Permitting Section	(213)	237-0806
Toxic Organic Management	(213)	237-0806
Enforcement Section	(213)	485-7580
Inspection Administration	(213)	485-5886
SIU Inspection Section	(213)	485-5874
City Wide Inspection	(213)	485-5874

	a.	PERIODIC COMPLIANCE REPORT SEND REPORT TO:	LIANCE REPO	RT SEND B	EPORT	PAGE TO	1 OF 2
	THIS IS	IS A DESCRIPTION OF YOUR FACILITY	ON OF YOUR	FACILITY	BUREAU OF SANITATION ENFORCEMENT DIVISION 4000 COLORADO BLVD	SANIT NT DIV	AFTON VISTON
•	V				LOS ANGELES CA 00030	ES CA	00030 SECTION
1	PERMIT NUMBE	MBER HERE PHONE # (DAYTIME OFFICE	(DAY TIME OF		REPORTING P	PEBIOD	
COMPANY NAME:	NAME OF BUS	BUSINESS FACILITY			CHECK ONE)	֓֞֞֞֜֜֞֜֜֜֜֜֝֞֜֜֓֓֓֓֞֜֜֜֜֝֓֓֓֓֓֓֜֝֟֜֜֝֓֓֓֜֝֜֜֝֜֜֝֓֡֓֜֝֡֜֜֝֡֓֡֓֜֝֡֓֜֜֝֡֜֝֡֜֜֝֡֡֜֜֝֡֡֜֜֝֡֜֜֝	2
COMPANY ADDRESS:STREET ADDRESS OF FACILITY	STREET ADDR	ESS OF FACILITY					
MAXIMUM DAILY FLOW:-	inp /	ring the reporting period	orting per		Check the proper	pro	ber
CYANIDE WASTE FLOW: AVERAGE	1 1	during the reporting period	eriod	- Le	reporting period	beri	po
Production Data		as required					
REGULATER TOXIC	OXIC ORGANICS	NICS INVENTORY LIST	INVEN	INVENTORY DATE:			
REGULATED TOXIC ORGANICS USE (IF NONE MUST STATE NONE)	ORGANICS USED BTATE NONE 1	AMOUNT USED PER MONTH	REGULATED TO	REGULATED TOXIC ORGANICS USED	AM P. P.	AMOUNT USED PER MONTH	USED
List TTOs and quantity		used monthly. TTOs are listed on page 11, 11a or 11b	TOs are list	ed on page	11, 11a or	#	.
	·						
SAMPLE LOCATION SAMPLE	AMPLE	LABORATORY NAME	SAMPLE TAKEN P BY (PERSON NAME)	PRENOTIFICATION DATE ** MM/DD/YY	REPORTED FLOW (GPD)	FLOW WA	FLOW WAS + (CHECK)
Describe the Sample Poi	Sample Point	абтрестотина	Who took	10 N T T T T	FLOW	-	-
	ct, sample box	analysis	the sample?	7(0).	on DAY	RUS	TA M V L A
mannole, batch tank	(ank)	A.		0.0	Sampled	MEY	CVFC
• M • MEASURED	E . ESTIMATED	C - CALCULATED	• 10	PRENOTIFY CAL	(213) 485-5874	874	

I.W. PERMIT #: W- 12545C



4	1		the same street and a second s			-		•) 10	-
TOTAL SE		(POINT SOURCE)	ALTERNATIVE LIMITS FOR	LOCAL LIMITS	SAMPLE # 1	VIOL	LAB VIOL		LAB	VIQ.	LAB	VIOL	4 · DAY	VIOL
(1/8m ut)	KAKIRM	13.5	DAILY MAK.	INSTANTANEOUS		3	SAMPLE # 2	~	SAMPLE # 3	-	SAMPLE # 4		AVERAGE	ć
	DAILY	4 - DAY	AND 4 DAY AVERAGE	MAXIM	SAMPLE DATE A	MD/OR	SAMPLE DATE AND/OR SAMPLE DATE AND/OR SAMPLE DATE AND/OR SAMPLE DATE AND/OR	× 0/	AMPLE DATE	M0/0M	SAMPLE DATE	AND/OR	9/12/40	<u> </u>
	3	(B)	USING CUF	(2)	9/2//6	99	06/68/6	<u>~</u>	(c) 10/15/90	<u> </u>	(B) //// /90	€9	9	YES /NO
ARSENIC		I		3.00	00			+						
CADATUM	1.20	0.70		15.00	0.30	8	0,00		47.0		2 1/2		8/0	1 5
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NI COEL	4.10	2.60		12.00	1.20		1.07	 	160	1	1 ×		2 5	5 5
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CHROMITUR	7.00	6.00		12.00	1.02		3.20		-80		1.32		1.76	8
ZINC	4.20	2.60		25.00	1.50		- 40	<u> </u>	2.10		77 6	60	190	5
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c. METALS	10.50	9.80		The state of the s	4.02		6.87 B		5.89		5 8 5		77 %	3
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110	2.13	Ī			0.36		710							
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OIL & ENEASK				0.009	10.6		15.4							
CH.CRIDES					20.0		40.5	_						

MAX. =MAXIMUM CWF=COMBINED WASTESTREAMS FORMULA, * TOTAL, F*FREE, D=DISSOLVED, VIOL=VIOLATION, TTO=TOTAL TOXIC ORGANICS, CALC.=CALCULATED, (ALL CALCULATIONS FOR COMBINED WASTESTREAMS FORMULA MUST BE SHOWN IN ATTACHMENTS OF THIS REPORT) ■ TOTAL,

ATTACH A STATEMENT OF REASON FOR VIOLATION AND CORRECTIVE ACTION TAKEN IF IN VIOLATION,

I CERTIFY THAT OUR COMPANY () IS IN IS MOT CONSTANTLY IN COMPLIANCE WITH THE EPA PRETREATMENT STANDARDS AND THE CITY OF LOS ANGELES EFFLUENT LIMITS. I MAVE PROPERLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ATTACHMENTS. BASED ON MY INQUIRY OF THOSE INDIVIDUALS RESPONSIBLE FOR OBTAINING THE INFORMATION SUBMITTED HEREIN, I CERTIFY THAT THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT AS DIRECTED

AUTHORIZED REPRESENTATIVE SIGNATURE

JOHN DOE PRINT NAME

PRESIDENT 11/14/90

BIV/MN413A0f /Rf V/9/90

ATTN. REPORTING SECTION ENFORCEMENT DIVISION LOS ANGELES CA BOOSE SEND REPORT TO: BUREAU OF SANITATION PAGE 1 OF FLOW WAS 4600 COLORADO BLVD AMOUNT UBED PER MONTH 19___ 19__ REPORTING PERIOD ** TO PRENOTIFY CALL (213) 485-5874 NOC - NAC - DEC CHECK ONE! REPORTED (aPD) FLOW 70r SAMPLE TAKEN PRENOTIFICATION REGULATED TOXIC ORGANIOS USED I IF NONE MUST STATE NONE) EPA SEMI-ANNUALLY PERIODIC COMPLIANCE REPORT FOR EXISTING MERAGE DISCHARGE FLOW LESS THAN 10,000 GPD (40 CFR 413) SOURCE NON-INTEGRATED JOB-SHOP ELECTROPLATING WITH AN MM/DD/YY INVENTORY DATE: 18P01 MEASURED | ESTIMATED | CALCULATED 10POI | MEASURED | ESTIMATED | CALCULATED PERIODIC COMPLIANCE REPORT (PERSON NAME) FORM - SN413E0E C - CALCULATED * PHONE REGULATED TOXIC ORGANICS INVENTORY LIST AMOUNT USED PER MONTH LABORATORY NAME · ESTIMATED REGULATED TOXIC DAGANICS USED IF HONE MUST STATE HONE I LOCATION BAMPLE w MAXIMUM DAILY FLOW: TAKEN COMPANY ADDRESS: BUREAU OF SANITATION WERAGE DAILY FLOW: M - MEASURED I.W. PERMIT # W-COMPANY NAME: BAMPLE 0 හ 4

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CROSS SECTIONS OF THE STREETS					SAUPLE # 1	<u>8</u>	SAPLE # 2	ğ	LAB SAMPLE # 3	N I O	SAUS BAJ	S S	4 - 0AY	A I G
					SAMPLE DATE	AND/OR	SAMPLE DATE AND/OR SAMPLE DATE AND/OR SAMPLE DATE AND/OR	(A)	SAMPLE DATE	(Y)			RESULT FROM	€
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COPPER				15.00										
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SILVER				5.00										
CHRONILLE				12.00										$\ $
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IF IN VIOLATION, ATTACH A STATEMENT OF REASON FOR VIOLATION AND CORRECTIVE ACTION TAKEN

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AUTHORIZED REPRESENTATIVE SIGNATURE

BIV/SN413F0E/REV/10/90

TITLE

DATE

PRINT NAME